FEDERATION OF MALAYA

REPORT

OF THE

121

MEDICAL DEPARTMENT

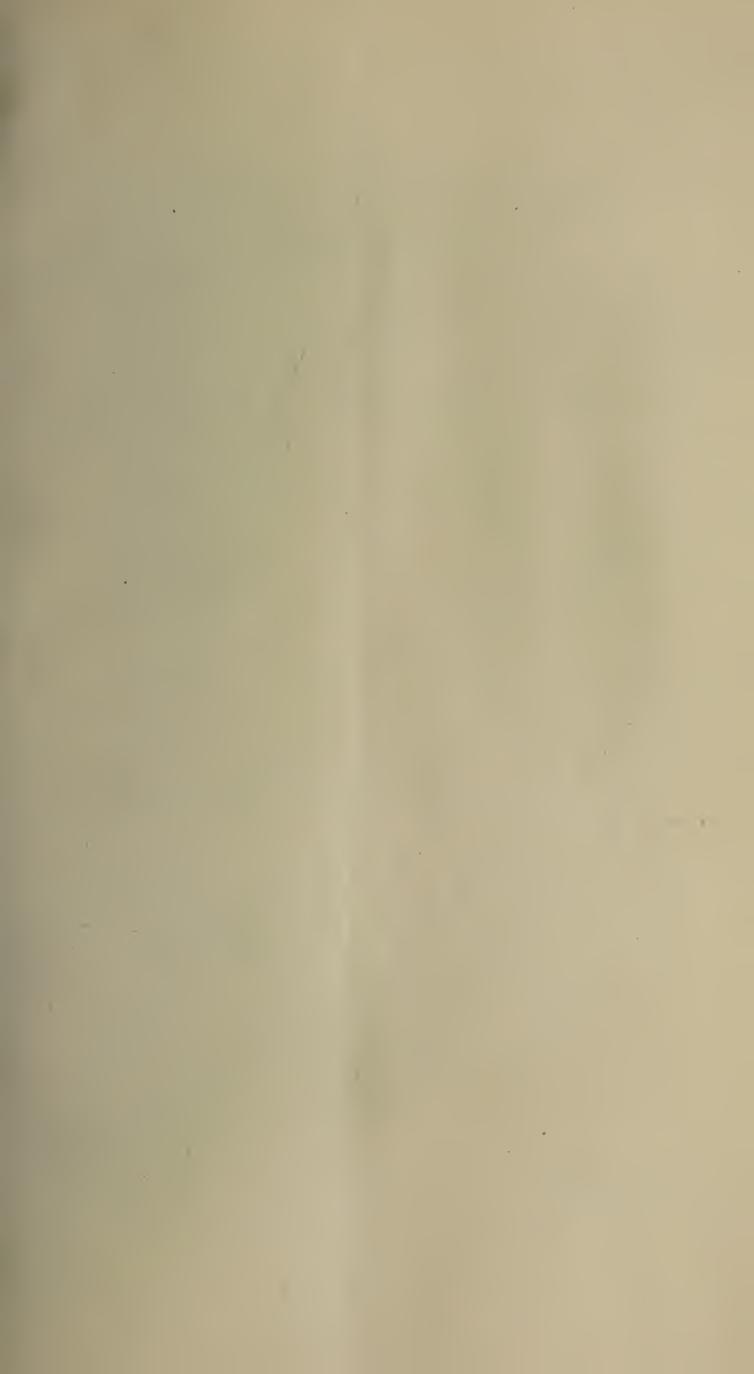
FOR THE YEAR

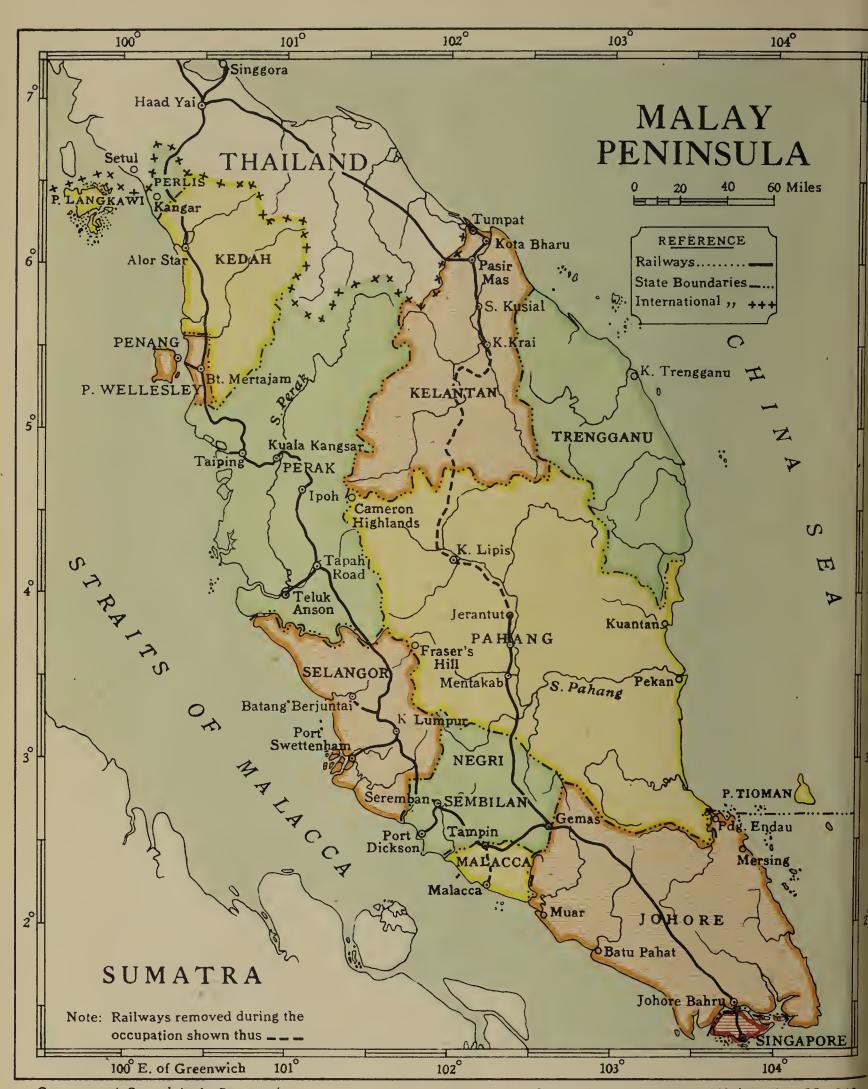
1951



By
DR. R. D. GROSS
M.D., D.P.H., D.T.M. & H.
Acting Director, Medical Services







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Survey Dept. Federation of Malaya No. 155-1949

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FOR THE YEAR

1951

By
DR. R. D. GROSS, M.D., D.P.H., D.T.M. & H.
Acting Director, Medical Services

KUALA LUMPUR:

PRINTED AT THE GOVERNMENT PRESS BY B. T. FUDGE, ATG. GOVERNMENT PRINTER.

1953.

Price: \$2 or 4s. 8d.

FOREWORD.

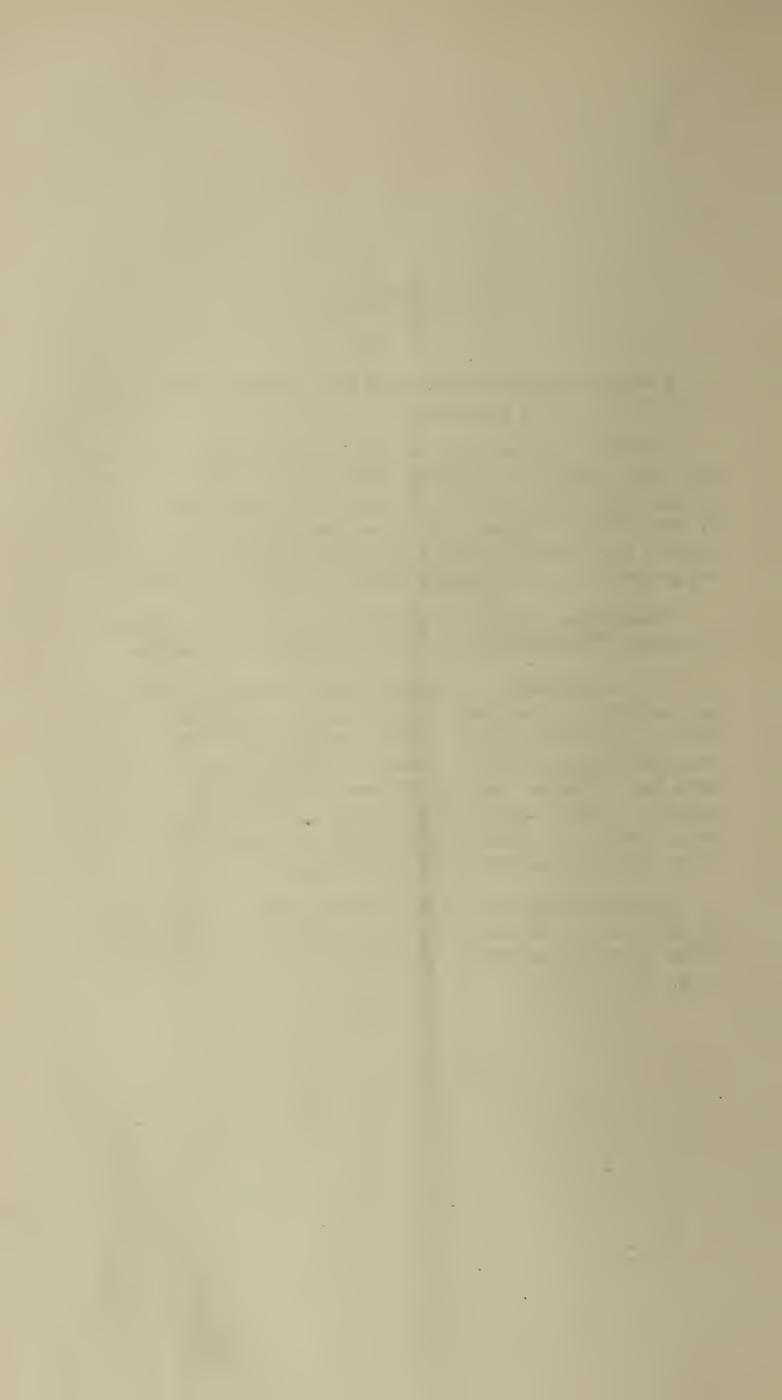
The vital statistics for the year show a steady improvement in the health of the population.

The birth rate has increased from 42.0 to 43.6 per 1,000 and the death rate has decreased from 15.8 to 15.3 per 1,000. Infantile mortality rate for all races has declined from 102 to 97 per 1,000 live births. It is to be observed, however, that on analysis the infantile mortality rate tends to show an increase in the proportion of infant deaths among the Chinese population.

Malaria has shown a slight increase in incidence whereas Pulmonary Tuberculosis has shown an appreciable decrease.

The resettlement of squatters has created an additional responsibility for the Medical Department. Considerable added risks to the health of these people from communicable diseases has arisen from their being brought together in closer contact in these New Villages. But against these additional risks it is now possible to extend more readily medical facilities previously not easily available to them owing to the fact that they lived in houses in widely scattered and isolated positions.

With the introduction of the Member System in April, 1951, the Medical and Health Services were included in the portfolio of the Member for Health, the Hon'ble Dr. Lee Tiang Keng, C.B.E., J.P.



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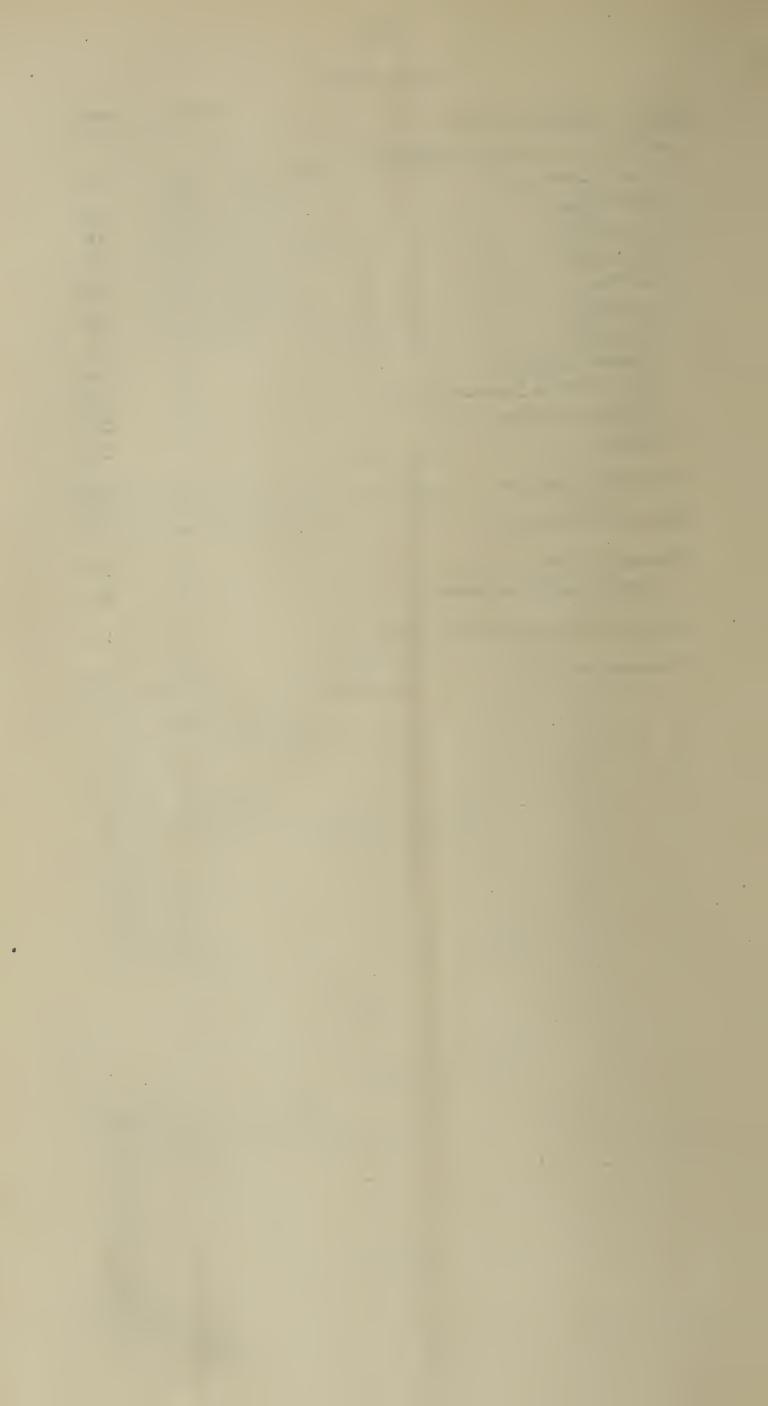
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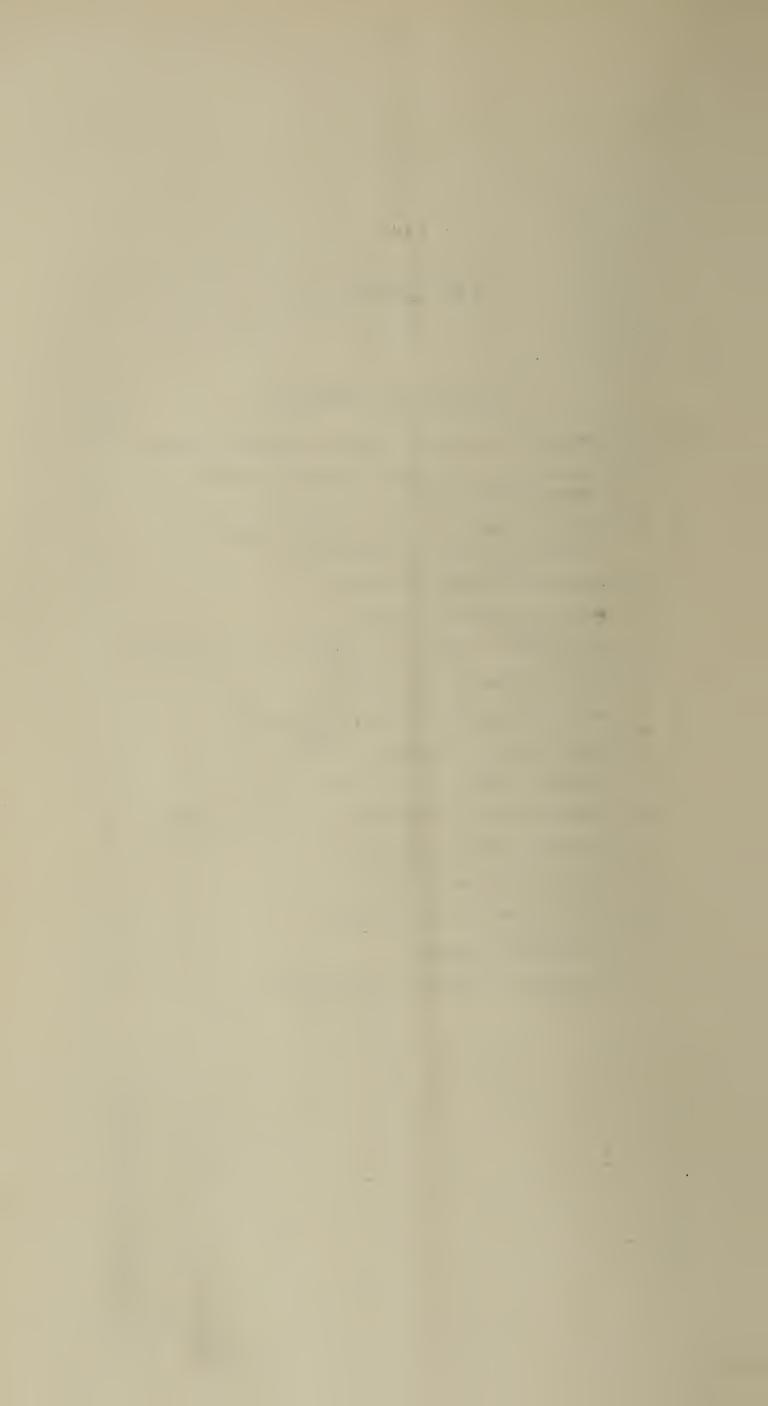
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REPORT OF THE MEDICAL DEPARTMENT FOR THE YEAR 1951.

PART I.

- 1. CLIMATE.—The climate of Malaya is fairly healthy but it is monotonously warm with a high humidity. The average daily temperature is 80°-90° F. with a drop of 5°-20° F. at night. The average annual rainfall is approximately 100 inches.
- 2. Area.—The land coming within the administration of the Federation of Malaya is a peninsula situated between 7°-and 1° North and 100° and 104° East. No part of it is more than 100 miles from the sea. The area of the States and Settlements is shown below:

• • •	• • •			3,648	sq. miles
• • •	• • •	• • •		310	,,
• • •		• • •		110	, ,
Welles	sley	• • •		290	, ,
• • •	• • •	• • •		7,980	, ,
• • •				•	, ,
nbilan		• • •		•	, ,
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Reration	of]	Malaya		51.286	
LCI WUIUI		Lizaraj a	•••		, ,
	Welles nbilan u	Wellesley mbilan u	Wellesley nbilan	Wellesley nbilan	

3. Population.—The estimated mid-year population of the Federation was 5,337,222, comprising Malaysians 2,631,154, Chinese 2,043,971, Indians 586,371 and others 75,726. This total showed an increase of 110,673 persons over the mid-year 1950 figure of 5,226,549.

By States and Settlements, the 1951 population is as follows:

States/Settlements.	Estimated population mid-year 1950.		Estimated population on 31-12-50.		Estimated population mid-year 1951.
Kedah	589,200		596,757		602,278
Perlis	74,887		75,790	• • •	76,315
Penang and Pro-					
vince Wellesley	473,227		478,945		481,748
Perak	1,018,603		1,031,957		1,041,861
Selangor	764,282		776,182	• • •	783,545
Negri Sembilan	288,548	• • •	293,067		296,483
Malacca	258,508		261,617		263,953
Johore	797,942	• • •	809,142		817,121
Kelantan	464,313	• • •	467,828		470,523
Trengganu	233,171		234,591		236,335
Pahang	263,868		265,832		267,060
Lanang					
Total Federation	5,226,549	• • •	5,291,708	• • •	5,337,222
TOTAL TOTALION	-,,-				

(2)—ADMINISTRATION.

4. Organisation.—Public health organisation is signified under the headings of Federal and State or Settlement activities. This follows the general pattern of administration and covers public health policy with special reference to the enforcement of quarantine and the control of epidemic diseases.

Hospitals exist in all the centres of large populations and these hospitals are administered by the head of the Medical Department in the various States and Settlements.

Medical Officers of Health together with a team of Sanitary Inspectors are stationed in all densely-populated areas, and their activities cover both urban and rural districts.

There are Specialist Officers in all the main hospitals in the Federation and they may be called upon to visit and advise in any State or Settlement within the Federation.

A Municipality or "Town Board" exists in all the main towns and this body is responsible for the prevention of infectious diseases within its boundaries. The health of labour forces on estates and mines is under the care of estate practitioners but the Government Health Department exercises supervision under the Labour Code to ensure that there is a reasonable minimum standard for housing and water supplies, and that control of malaria is carried out by draining, oiling or the administration of prophylactic drugs. Most of the labour on estates have now been regrouped due to the activities of Communist terrorists.

Much of the rural population which was previously widely scattered has now been concentrated in villages for the same reason.

This has enabled the Medical Department to extend its services more readily to this population.

The staff employed throughout the country on public health work, exclusive of Municipalities, which have their own health staff, is made up as follows:

Medical Officers of Health	• • •	29
Health Inspectors or Sanitary Inspectors	• • •	129
Public Health Sisters	• • •	19
Public Health Nurses		83

5. Expenditure on Medical and Health Services.— The total direct expenditure by Federal, State and Settlement Governments on Medical and Health Services was \$38,693,817. This figure does not take into account the large sums of money expended by Municipal Health agencies in their spheres of administration.

Estates maintain their own hospitals and have their own medical practitioners who visit periodically. They also undertake their own anti-malarial measures. An indication of the vast extent of health services on estates can be gauged by the fact that in the Federation they maintain an overall hospital accommodation of 5,858 beds.

6. STAFF.—Dr. R. B. MacGregor, c.m.g., Director of Medical Services, proceeded on leave prior to retirement, with effect from 4th January, 1951, after 31 years' service in Malaya.

The Deputy Director of Medical Services, Dr. E. A. Struthers, acted as Director of Medical Services till 5th October. 1951, when he, too, proceeded on leave prior to retirement, and Dr. R. D. Gross is now acting as Director of Medical Services.

The shortage of qualified medical staff is still very serious. While recruits from the University of Malaya are increasing in numbers, there has been a steady loss of senior officers. In spite of this, every effort has been made to allow local doctors and nurses to obtain advanced training overseas.

At the end of the year the position in the Federation was that out of an establishment of 338 posts for medical officers 110 were unfilled and a further 56 were held by temporary officers as compared with 134 unfilled and 39 held by temporary officers out of an establishment of 330 in 1950. The figures shown make no provision for leave reserve. Details of establishment and present staff are given in the appendix (Table 15).

7. Legislation.—Legislation considered during the year under review in relation to new laws pertaining to medical matters (or to an extension of existing Enactments) comprised the following:

The Deleterious Drugs Enactment (Johore Enactment No. 96);

The Nurses Registration (Amendment) Regulation, 1951;

The Prevention of Diseases Enactment (Application to Perlis) Ordinance, 1951;

The Registration of Pharmacists Ordinance, 1951.

PART II.

PUBLIC HEALTH—(1) VITAL STATISTICS.

8. The Vital Statistics for the year 1951 show a steady improvement in the health of the population.

The general birth-rate is 43.6 per 1,000 population at midyear 1951. The general death-rate is 15.3 per 1,000, while the infantile death-rate decreased to 97 per 1,000 live births.

- 9. Population.—The estimated population of the Federation at mid-year 1951 was 5,337,222. Details are given earlier in the report (paragraph 3).
- 10. Births and Deaths—Births.—Live Births registered in 1951 were 232,896 (119,278 males and 113,618 females) as compared with 219,512 in 1950. This gives an average of 19,408 per month against 18,293 in 1950.

The birth-rate for all races was 43.6 per 1,000 (42.0 in 1950). By races the birth-rates were:

			1950 Rates
Malaysians	•••	44.9 per 1,000	41.9
Chinese	• • •	41.9 ,,	41.7
Indians and Pakistanis	• • •	45.5 ,,	44.9
Others		30.8 ,,	30.1

The number of births registered during the year 1951 was the greatest ever recorded and showed an increase in all communities.

DEATHS.—Deaths registered in 1951 were 81,630 which is 924 less than recorded for 1950 (82,554). The death-rate for all races, calculated on the mid-year population was 15,3 per 1,000.

The corresponding death-rate for 1950 was 15.8.

The death-rates by races were:

		1950 Rates
Malaysians	 17.3 per 1,000	18.7
Chinese	 13.4 ,,	12.7
Indians and Pakistanis	 13.3 ,,	13.6
Others	 11.2 ,,	13.6

- 11. Increase of Population.—The "natural" increase (births minus deaths) therefore amounted to no less than 151,266 which is 2.8 per cent. of the estimated mid-year population, whereas in England and Wales, with an estimated mid-year population of 43,800,000 the figure is .29 per cent. resulting from a "natural" increase of 130,579 during the corresponding period.
- 12. Infant Mortality.—The deaths of infants under one year numbered 22,663 out of 81,630 deaths at all ages. There were 232,896 live births, and the infantile mortality rate was 97 per 1,000 live births. The corresponding figures for 1950 were 22,301 under one year out of 88,554 with an infantile mortality rate of 102.

The racial distribution of infantile mortality is as follows: (The corresponding figures for 1950 are in brackets).

Races.		Infant Deaths.	Births.	Monthly average Infant Deaths.
Malaysians		12,743 (13,075)	118,256 (108,173)	1,062 (1,090)
Chinese		7,029 (6,199)	85,629 (83,830)	586 (517)
Indians and Pakistanis		2,785 (2,883)	26,680 (25,369)	232 (240)
Others	• •	106 (144)	2,331 (2,140)	9 (12)

An analysis of the Infantile Mortality shows that an increase in the proportion of deaths has only occurred in the Chinese.

- 13. MATERNAL MORTALITY.—The total maternal deaths were 1,327 for 232,896 births, as compared with 1,172 for 219,512 births in 1950. This gave a maternal death-rate of 5.7 per 1,000 births, and the figure for 1950 was 5.3 per 1,000 births.
- 14. Principal Causes of Death.—Out of a total of 81,630 deaths only 19,513 (about 24 per cent.) have been certified by a medical man. It may, therefore, be expected that the classification is far from accurate. "Fever of unknown origin" accounts for 9,310 deaths. Malaria accounts for 912 deaths as compared with 1,011 deaths in 1950.

The other principal causes are given below: (1950 figures in brackets).

 (a) Pulmonary Tuberculosis
 ...
 2,873
 (3,109)

 (b) Pneumonia
 ...
 ...
 2,703
 (2,505)

 (c) Premature Births
 ...
 ...
 2,328
 (2,159)

 (d) Violence
 ...
 ...
 3,667
 (3,131)

PUBLIC HEALTH—(2)—SPECIAL DISEASES.

- 15. The public health problems of the Federation of Malaya are the prevention of malaria, reduction of pulmonary tuberculosis, eradication of yaws, the control of conventional diseases and the treatment of leprosy and mental diseases. The prevention and the treatment of other common diseases, improvement of the general standard of nutrition and health and enforcement of quarantine constitute an equally important part of the Health Services.
- 16. Malaria.—Malaria has shown a moderate increase in incidence. There is evidence of a rise towards the middle of the year and how much of this is a rise in the actual incidence of malaria is not easy to assess as there has been a certain amount of movement of individuals into towns because of resettlement changes.

It is well known that mass movement of population in tropical and sub-tropical areas is a potent factor in causing serious malarial epidemics. Although Malaya has been a leader in the control of malaria for the past few years, there is evidence now in some parts of the country of an increase in malaria transmission.

The number of malaria cases treated in Government hospitals was 18,325 with 353 deaths as compared with 14,559 and 328 deaths in 1950.

Experiments in malaria control by house spraying with insecticides in the villages of Negri Sembilan have now been in progress for two years. The results to date are good but undramatic. They give grounds for the hope that a twice yearly spraying may be a practical and effective way to control malaria in many parts of rural Malaya where anopheles maculatus is the only carrier. The experiments are to go on for another year. Control of other carriers appears less favourable but these are still being investigated.

17. THE MALARIA ADVISORY BOARD.—The constitution of the Board is as follows:

Six Permanent Members (Medical)

The Director of Medical Services (Chairman).

The Director, Institute for Medical Research (Vice Chairman).

The Senior Malaria Research Officer.

The Entomologist, Institute for Medical Research.

The Senior Medical Officer, Military Forces.

The Principal Medical Officer, Royal Air Force. Five Permanent Members representing Government Departments

Representing:
Railways
Public Works,
Drainage and Irrigation,
Education,
Agriculture.

Members nominated by Commissioner.

Five Medical Officers in the Public Service appointed by name

Five Medical Practitioners not in the Public Service

Two representatives of planting interests nominated after consultation with the United Planting Association of Malaya

His Excellency the High

Government Medical Officers with experience of antimalarial work.

These are all Estate Medical Practitioners with antimalarial experience.

One Asian and one European planters' representative

One member nominated to represent labour interests.

Four other nominated members

(One is an Administrative Officer and three are medical men).

The Secretary of the Board is either the Entomologist or the Malaria Research Officer, Institute for Medical Research.

In addition to members, the following guests were present at the meeting: Surgeon Commander G. H. G. Southwell-Sander, R.N., and Col. W. A. D. Drummond, C.B.E., A.D.M.S., Malaya District; Capt. C. E. Shearman, R.A.M.C., Singapore, Professor A. A. Sandosham, University of Malaya; Dr. R. Calderwood, Chief Health Officer, Singapore; Dr. J. F. B. Edeson, Malaria Research Officer, and Mr. R. H. Wharton, Entomologist, of the Tampin Branch of the Institute for Medical Research.

The Board held only one meeting on 11th August, 1951.

18. Review of Local Malaria.—For the first time since the Japanese occupation, hospital admissions for malaria showed an upward trend in 1951. The increase was evident in admissions both to Government hospitals and to estate hospitals, and was reported from eight of the eleven States and Settlements in the Federation. The total admissions were still well below the 1947 level, but were higher than in 1948, 1949 or 1950. Whether this increase is a temporary one or marks the end of a long period of unusually low malaria incidence has yet to be revealed.

The case mortality rate in Government hospitals was only 1.9 per cent., compared with 2.7 per cent. in 1950. Blackwater Fever remained rare.

19. Control of Malaria on Estates.—Dr. R. B. Wallace of Dublin Estate, Kedah, described the history of malaria control on that estate since 1926. Anti-larval measures such as drainage and oiling failed to control the annual malaria wave, nor was Paris Green any improvement on anti-malarial oil. Quinine

prophylaxis was also unsuccessful, and plasmoquine prophylaxis was little better; but atebrin (mepacrine) prophylaxis from 1933 onwards gave effective control of malaria for the first time, and anti-larval measures were stopped completely.

Since 1946, new insecticides and new synthetic anti-malarial drugs have been tested on various divisions of the estate. A number of residual insecticides, including DDT and BHC appeared effective against Anopheles maculatus in preliminary trials, but BHC failed to prevent the malaria wave when used alone on four divisions. For the conditions prevailing on this estate, it appears that drug suppression is the control method of choice, and mepacrine, proguanil, chloroquine and pentaquine, neopremaline and metoquine, have all been tried and found effective.

20. Comparative Costs of Insecticides.—Mr. R. H. Wharton, Entomologist, Tampin, prepared a valuable review of the different preparations of insecticides available in Malaya, and tables of comparative costs when used as residual sprays in houses or as larvicides.

Home-made emulsions at prices then ruling were easily the cheapest form of insecticide, but required care in preparation. For residual house spraying, a home-made emulsion cost about one-half as much as DDT-kerosene solution, and was much less bulky to transport.

Emulsions were also the cheapest form of larvicide, and previous reports showed that they were efficient when properly used. The substitution of emulsions for malariol should reduce the cost of materials by at least ninety per cent. and possibly more, but labour costs would remain much the same.

- 21. Plague and Cholera.—No cases of plague or cholera were reported in 1951.
- 22. SMALLPOX.—There were two imported cases of smallpox, one from Sumatra and the other from Singapore. Adequate steps were taken to prevent any outbreak. Total number of vaccinations done during the year was 294,663.
- 23. SCARLET FEVER.—Two cases of scarlet fever were recorded, one in Pahang and the other in Penang.
- 24. Tropical Typhus.—This disease is still prevalent in the Federation of Malaya. Five hundred and twenty-seven cases were recorded during the year, out of which 414 were scrub typhus and 113 urban typhus. Selangor and Johore recorded the highest number of cases—130 and 105 respectively. Advances in chemoprophylaxis have resulted in reducing the case mortality. There were only 11 deaths—giving a case mortality rate of 2.1 per cent. as against 8.7 per cent. in 1947.
- 25. Enteric Fever.—The number of cases of enteric fever reported was 1,064 with 136 deaths. The disease is endemic in Malaya. There was no major outbreak in any particular area but a minor outbreak occurred in Kuala Lumpur in September. The case mortality rate was 12.7 per cent. as against 21.3 per cent. in 1947.
- 26. Dysentery and Diarrhæa are not notifiable. Hospital statistics show admissions as 7,185 with 957 deaths.

- 27. DIPHTHERIA.—There was an increase in the number of cases of diphtheria, there being 1,203 cases with 289 deaths. The corresponding figures for the year 1950 were 901 cases and 242 deaths. There was no outbreak in any particular area and the cases occurred sporadically. The case mortality rate was 13.3 per cent. as against 30.6 per cent. in 1947.
- 28. Cerebro-spinal Meningitis.—Fifteen cases of cerebro-spinal meningitis were reported with five deaths.
- 29. Poliomyelitis.—There have been sporadic cases of poliomyelitis throughout the Federation with an increase in numbers. One hundred and ninety-nine cases were reported with 21 deaths as compared with 44 cases and three deaths in 1950.

The greatest number of cases recorded was in the State of Selangor with 49 cases and nine deaths and the highest number notified being 28 in March and 27 in May.

30. Yaws.—Yaws in Malaya is a disease which is common among the rural population, particularly Malays. Although the disease was on the increase especially on the East Coast after the war due to neglect during the occupation period, it has been brought under control with appropriate treatment by arsenical injections. It is still very common in places which are far away from the towns.

Thirty-five thousand seven hundred and eighteen cases of yaws were treated during the year as compared with 35,657 cases in 1950.

31. Pulmonary Tuberculosis.—Tuberculosis is still the disease which continues to play a prominent part in the minds of the public. Voluntary public organisations and Government public health agencies have made valuable contributions and have aroused public interest in tuberculosis treatment and control.

The incidence of tuberculosis is decreasing slowly as judged by the figures for hospital admissions and deaths. Admissions to hospitals for pulmonary tuberculosis were 5,933 with 1,740 deaths as compared with 6,305 admissions and 1,767 deaths for the corresponding period last year. The total deaths registered with the Registrar-General, Births and Deaths were 2,873 for the year as compared with 3,109 in 1950.

Hospital facilities are being improved and the total number of beds for tuberculosis is now 2,768. Far too many of the beds continue to be occupied by advanced and hopeless cases. As they are sources of infection they are kept in hospital—a problem which causes concern in every hospital in the Federation.

The modern out-patient clinic with its own X-ray Department and laboratory in Malacca has proved its worth in dealing with an almost overwhelming number of cases. Pneumoperitoneum with or without phrenic paralysis continues to give good results.

32. The Tuberculosis Settlement at Pulau Jerejak has been extended to provide accommodation for 350 cases. When the repairs are completed it is expected to accommodate 600 patients. A wholetime medical officer is in charge of this tuberculosis settlement.

Fresh air, rest, hygiene and nourishing food form the main pillars on which the treatment is based. Patients are encouraged to lead an open air life. The better type of patients who are improving usually engage in hobbies such as fishing, painting, gardening, vegetable growing, tailoring, knitting and making of fishing nets.

The members of the British Red Cross Society visit the settlement once a month and instruct the patients in various handicrafts as diversional therapy.

- 33. The year 1951 will always be a landmark in the history of tuberculosis control in the Federation of Malaya, since it saw the commencement of the B.C.G. campaign. This method of control has been well received by the public and is now carried out in schools, infant welfare centres and maternity wards. This campaign increased in momentum during the latter part of the year and is now in full swing. Out of 249,181 persons who were tested with tuberculin 133,355 were vaccinated with B.C.G.
- 34. Leprosy.—The undoubted efficacy of the new series of drugs in the treatment of leprosy is having a very obvious effect. A far greater number of people are now coming voluntarily for treatment and their subsequent rapid improvement and the sight of others around them has brought buoyancy to the Settlement. The total number of patients in the four settlements in the Federation is now 3,127.

A report of the work of the Leper Settlements is given in a later section (paras. 75-77).

35. Venereal Diseases.—The incidence of venereal diseases is declining yearly. Treatment centres are available at all hospitals and out-patient clinics while a number of special clinics function in the larger centres of population. The efficacy of the sulpha drugs and penicillin has become widely known and they are regarded as a panacea for many ailments. The following figures indicate the number of new cases treated:

New Cases.			1950.		1951.
Syphilis			9,048	• • •	7,589
Gonorrhœa			5,079	• • •	4,758
Other V.D.		• • •	2,002	• • •	2,009
	Total	• • •	16,129	• • •	14,356

The above figures show a considerable reduction as compared with the figures for 1950. Part of the reduction may be due to patients seeking treatment by private doctors and to self medication with "sulpha" drugs, but there is justification for the belief that there is a real decrease resulting from settling down to normal ways of living.

A detailed Return of Venereal Diseases treated in Government Hospitals and Clinics, showing diagnosis and distribution by race and sex is included in the Appendix (Table 12).

PUBLIC HEALTH (3)—NUTRITION.

36. Since the retirement of the Senior Nutritional Research Officer no nutritional surveys have been done and the investigations have unfortunately had to be suspended.

Supplementary feeding of school children became the responsibility of the respective State or Settlement authorities. In some of the States school feeding schemes continue but in others this privilege was withdrawn.

PUBLIC HEALTH (4)—ESTATES, MINES, RAILWAYS, QUARANTINE.

- 37. Health on Estates.—Progress continues to be made in health measures for estate labourers. The general health of labourers has improved. Many estates have made good progress in their rebuilding programmes, demolishing the old types of labourers' lines and replacing these by more modern structures on the lines laid down by the Labour Department. Unfortunately, in some instances, Communist activities have impeded operations, but generally speaking, these rebuilding programmes are progressing steadily, and it can be said that on the whole sanitary conditions on estates have been satisfactory.
- 38. ESTATE HOSPITALS.—The following table is a summary of the provision made by employers for the treatment of sick labourers and their dependants on estates:

States/Settlements.		4	No. of Estate Hospitals.		No. of Beds.	All Dise	Malaria.		
		nts.				Admissions.	Deaths.	Admis- sions.	Deaths.
Kedah				13	1,014	17,195	333	2,806	25
Perlis					_	-			
Penang	and	Prov	ince						
Wellesley				3	195	770	13	23	
Perak				31	1,326	15,814	343	312	2
Selangor				30	1,275	20,227	555	518	3
Negri Sembi	ilan			19	1,037	12,303	362	725	10
Malaeea				11	190	3,018	52	315	_
Johore				15	528	6,558	99	352	2
Kelantan				4	82	1,714	23	237	3
Trengganu				1	40	1,016	14	340	1
Pahang				4*	171	3,322	58	104	4
		Total	٠.	131	5,858	81,937	1.852	5,732	50
				*					

[•] Includes one Sungei Lembing Mines Hospital.

The following table is a summary of the statistics relating to mortality amongst labourers on estates:

				All	Diseases.	Malaria.		
			Population.	Deaths.	Death rate per mille.	Deaths.	Death rate per mille.	
Labourers and Depo All nationalities	endant •••	s—	 414,664	3,653	8.81	100	.24	
Labourers only— All nationalities	• •		 258,953	1,292	4.99	30	.12	
Labourers and Depo Indians	endant •••	s—	 249,177	2,642	10.60	56	.22	
Labourers only— Indians	• •	• •	 144,244	844	5,85	14	.09	

39. The low incidence of disease and the low mortality amongst labourers on estates is now taken as a matter of course. It is interesting to look back and examine the conditions that existed only 30 to 40 years ago. The table below shows the comparison:

ESTATE MORTALITY RATES.

F.M.S.		Total Number of Estate Labourers		Deaths.	,	Death rate per mille.
1911		143,614		9,040		62.9
1912		171,968		7,054		41.02
1913		182,937		5,592	• •	29.6
1914		176,226		4,635		26.3
1915		169,100		2,839		16.78
1918		213,425		9,081		42.55
	(I	nfluenza Epidemi	c)			
1919		216,573		3,384		16.16
1920		235,156		4,367		18.57
1921		175,649		3,195		18.19
F. of M.						
1949		351,968		940		2.7
1950		269,685		779		2.89
1951		258,953		1,292	• •	4.99

- 40. Health on Mines.—With the exception of Pahang Consolidated Mines there are no hospitals on mines and the labourers are sent to Government Hospitals for treatment.
- 41. Railway Sanitation.—The health and medical work on the Malayan Railway is under the charge of a Medical Officer seconded from the Government Service. It provides medical facilities for railway staff and their dependants at places where medical department facilities are not readily available, namely at wayside stations and all gang lines.

The activities of this department were confined largely to anti-malarial works on the Railway Reserve and on State and private lands adjoining the Railway Reserve. Preventive measures adopted consist of oiling of drains by the spray and brush methods, disinsectisation of quarters with DDT and prophylactic treatment of staff and their dependants.

Thirteen Railway Dispensaries including those on major construction areas functioned during the year. First aid courses of instruction based on St. John Ambulance handbook were attended by 312 employees of whom 77 passed the examinations held on completion of the courses.

First Aid Boxes and stretchers are available on all passenger trains, workshops and at all stations and they are replenished as often as necessary.

PORT HEALTH WORK.

42. During the period from 1st January, 1951 to 31st December, 1951, 149 immigrant ships from India, 76 from China, 3 pilgrim ships from Jeddah and 122 from other infected ports arrived, carrying a total of 73,726 saloon and deck passengers.

No dangerous infectious diseases were detected among the passengers during routine examination of passengers on board.

Outgoing Pilgrim Ships—Three pilgrim ships carrying a total of 5,797 left the port of Penang during the period.

Incoming Pilgrim Ships—Three Pilgrim Ships carrying a total of 4,675 pilgrims arrived during the period. A total of 18 deaths occurred on these ships and the deaths were chiefly among the aged.

43. SUMMARY OF PORT HEALTH WORK.—

Number of visits of inspection to ships.		Total Passengers.			Total Examined.			Passengers.		
		Cabin.	Deck.		Crew.	'Pas- sengers.		U.	Q.	R.
Penang	. 350	14,240	59,486		36,805	73,726		9	2	33,936
Port Swettenham .	. 160	2,359	10,745		13,246	13,104		-		12,353
Total .	. 510	16,599	70,231	• •	50,051	86,830		9	2	46,289

U—Signed undertaking to report.

Q-Removed to Quarantine Station.

R—Remained in ship.

- 44. Quarantine Station, Pulau Jerejak.—The Quarantine Station was returned to the Medical Department on 1st October, 1951. During the period no passengers were sent for quarantine.
- 45. VACCINATIONS AND INOCULATIONS PERFORMED AT THE PORT HEALTH OFFICE.—During the period 13,884 vaccinations and 13,826 inoculations were performed. Out of the total number of vaccinations performed 277 were primary vaccinations and 13,607 were re-vaccinations for purposes of International Certificates (Medl. 41).
- 46. RAT EXAMINATIONS.—This had to cease after January, 1951 as the Municipal Health Department stopped the supply of rats. In January, 1951 only one rat was examined and no B. Pestis was found.
- 47. Inspection of Ships.—Seventy-nine ships were inspected for rats for the purpose of issuing Deratisation Exemption Certificates. All except two were clean and certificates were issued.
- 48. Inspection of Aircraft.—A total of 186 planes were inspected during the year. Altogether a total of 864 crew and 1,149 passengers were examined but no case of dangerous infectious disease was detected among them.

PART III.

MATERNITY AND CHILD WELFARE.

49. This is a State service, particulars of which will be found in the reports of individual States and Settlements.

In spite of activities by the terrorists new maternity and child welfare centres have been opened up in most of the States, but this expansion is limited by lack of personnel to staff the new centres. The people are slowly becoming conscious of the value of these welfare centres, most of which are well attended and slowly the emphasis is passing from disease to maintenance of health.

The total number of women admitted to maternity wards in 1951 was 43,709 and the total number of deaths was 365. This compares with 38,814 admissions and 313 deaths in 1950. The attendances of mothers and children at the welfare centres amounted to 838,074 and 348,337 visits were paid to mothers and children in their homes.

A tabulated statement of child welfare centres is given in the Appendix—No. 13.

PART IV.

HOSPITALS AND DISPENSARIES.

50. There are seventy Government Hospitals in the Federation, not including the Special Institutions for Mental Diseases and Leprosy.

During the year 223,287 patients were admitted. This does not include the inmates of the Leper and Mental Institutions which numbered 613 and 1,975 respectively.

The general condition of the wards and equipment is now reasonably good in all the hospitals, but the shortage of trained personnel has resulted in the closure of wards in certain hospitals.

51. A summary of the distribution of hospitals and beds is given below. A tabular statement of hospitals with daily averages, admissions and deaths is given in the Appendix—Table No. 1A.

Summary of Hospital Accommodation.

a	,		Number and Category of Beds.						
State/Sett!	e/Settlement.		General.	Obstetrics.	Tuber- culosis.	Infectious.	Mental.	Total.	
Kedah	• •		720	78	207	15	19	1,039	
Perlis			97	10	12	5		124	
Penang and P.	Welles	ley	859	150	651	50	17	1,727	
Perak			2,028	255	403			2,686	
Selangor			1,346	173	246	29	14	1,808	
Negri Sembilar	ı		729	104	328	29	8	1,198	
Malacca			366	79	337	49	6	837	
Johore			1,460	260	367	50	82	2,219	
Kelantan			309	29	43		35	416	
Trengganu			208	20	40	8	26	302	
Pahang	• •		555	61	134	26	11	787	
	Total		8,677	1,219	2,768	261	218	13.143	

Total excluding Special Institutions	• • •	•••	13,143
Special Institutions:			
Leper Settlement, Sungei Buloh, Selangor		2,650	
,, Pulau Jerejak, Penang	• • •	500	
,, Johore Bahru	• • •	302	
Leper Camp, Kota Bahru, Kelantan	•••	24	3,476
	_		
Mental Hospital, Tanjong Rambutan	• • •	• • •	3,000
Total—All	Red	la	19 619
	100		10,010

52. Out-patients.—All Hospitals have out-patient departments. This is supplemented by small dispensaries situated in many of the smaller towns and by travelling motor dispensaries operating on the main roads. Hospital assistants in charge of fixed dispensaries travel by bicycle throughout their area to deal with places which the travelling dispensaries cannot reach. In Johore, Pahang, Perak and Kelantan a certain amount of travelling is also done by river.

The provision of medical facilities for re-settlement areas has been achieved by the utilisation of the service of the travelling dispensaries and by the erection of permanent dispensaries with resident staff.

Two million one hundred and fifty-nine thousand six hundred and eighty-four attendances at all dispensaries were recorded in 1951. This figure does not include attendances at Infant Welfare Centres and Venereal Disease Clinics. Six hundred and thirty-eight thousand three hundred and fifty of these attendances were at travelling dispensaries.

Details of the distribution of dispensaries and of the patients treated are given in the Appendix (Table No. 5).

NOTES ON CONDITIONS TREATED IN HOSPITALS, CLINICS AND DISPENSARIES.

53. Full details are given in Table 1 of the Appendix. The following gives an indication of the commoner conditions treated in hospital:

Diseases.			Admissions.	Deaths.	Mortality per cent.
Malaria			18,325	353	1.92
Pulmonary Tuberculosis			5,933	1,740	29.33
Dysentery			1,787	67	3.75
Diarrhoea and Enteritis			5,398	890	16.49
Pneumonia and Broncho-I	Pneum	onia	4,475	1,333	29.79
Bronchitis			9,703	129	1.33
Beri-beri			676	59	8.73
Venereal Diseases			3,415	70	2.05
Enteric Fever			915	132	14.43
Injuries due to External Ca	auses		23,255	866	3.72

54. RACIAL DISTRIBUTION OF HOSPITAL ADMISSIONS AND OF COMMON DISEASES.—The following statement gives an indication of the distribution of the common diseases in the three principal racial groups. This cannot be taken as a true indication of the racial distribution of disease. The proportion of Malays who are treated as in-patients in hospital is small in relation to the other races. The number of Indians is disproportionately high, because more Indians are employed by estates and the authorities insist on sending their employees to hospitals when necessary.

Races.	Malaysians.		Chir	iese.	Indi	ans.	Others.		
Population	2,631	,154	2,043	3,971	586	5,371	75,726		
sions to hos- pital	53	,974	94	1,109	71	,386	6,406		
Disease.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths	
Malaria Dysentery and	7,312	41	5,332	231	5,240	72	441	9	
Enteritis Pulmonary	1,693	84	2,791	627	2,499	240	202	e	
Tuberculosis	1,167	151	3,619	1,219	1,067	347	80	23	
Pneumonia	654	96	2,309	888	1,422	335	90	14	
Beri-beri	130	6	364	42	178	11	4		
Appendicitis	167	4	979	23	380	10	92		

55. Malaria Cases in Hospitals.—The number of malaria cases treated in Government Hospitals was 18,325—an increase of 3,766 cases from 1950. The distribution of types of malaria, diagnosed microscopically was:

Sub-tertian	 			70.6 p	er	cent.
Benign tertian	 	• • •	• • •	25.5	,,	, ,
Mixed	 			3.3	,,	,,
Quartan	 	• • •		0.6	,,	,,

- 56. Surgical Work.—Surgical operations, major and minor, totalled 43,353: details are given in the Appendix (Table No. 3).
- 57. OPHTHALMIC WORK.—Forty-four thousand four hundred and sixty-one patients were treated for diseases and injuries of the eye and 2,372 eye operations were performed.

Details are given in Table 4 of the appendix.

58. Radiological Work.—Nearly all the more important district hospitals and all the larger hospitals now have efficient X-ray equipment.

Ninety-two thousand five hundred and fifty-three patients have been examined by X-ray and 2,978 patients treated in the X-ray and Electro-Therapeutic Departments.

59. Veneral Diseases.—Cases treated as in-patients numbered 3,415 and 70 deaths in hospitals are recorded as due to veneral diseases: this includes 125 of congenital syphilis.

Further particulars are given in the section on Special Diseases (Para. 35) and in Table 12 of the Appendix.

PART V.

TRAINING OF NURSES.

60. The training of the local nurses has been based on the syllabus of the General Nursing Council of England and Wales.

Nurses and Hospital Assistants attend the same courses in basic subjects and arrangements are made for Hospital Assistants to attend demonstrations in laboratory methods to meet the requirements of their curriculum.

The Regional Training School in Penang serves the needs of the northern part of Malaya. This school has developed steadily and has reached the stage when it is ready to expand. Facilities for training nurses also exist in the larger hospitals of Johore Bahru, Malacca, Seremban, Kuala Lumpur and Ipoh.

There is still difficulty in recruiting nurses with the standard of education requested by the Nursing Board though more girls are finishing school. The major problem in recruitment is shortage of living accommodation.

An Assistant Nurses Scheme with a lower educational standard was introduced during the year. It is hoped that as a result work done in an haphazard fashion for patients by attendants will cease and the assistant nurses will take over the less responsible duties of the trained nurse.

The courses given in the Penang Regional Nursing Training School in 1951 comprised three Preliminary Courses with 64 pupils; three Block Courses with 119 pupils and post-graduate training for 15 nurses and 15 hospital assistants. The total numbers passing through the school were 119 nurses and 28 hospital assistants.

The Regional Training School at Kuala Lumpur accepted students from Selangor, Negri Sembilan and Pahang for training during the year. This comprised one Preliminary and three Block Courses with 72 students and of these 39 candidates were successful. In addition, two Post-Graduate Courses were held for 25 Staff Nurses.

Throughout the Federation 66 nurses passed their Final Examination in General Nursing in 1951.

PART VI. DENTAL.

61. STAFF.—Four graduates of the University of Malaya were recruited as Dental House-Surgeons. They were posted to Penang, Alor Star, Ipoh and Johore Bahru.

One lady dental officer was recruited from Australia on a three-years contract and was posted to Malacca.

Of the six dental house-surgeons recruited in 1950, five elected to remain in Government Service on the termination of the period of housemanship.

Nine dental nurses completed their training at the Dental Nurses Training School, Penang, in June, 1951, and 11 qualified in December, 1951. Of the total of twenty, nineteen were posted to the States or Settlements of the Federation of Malaya, and one returned to Singapore.

NEW CLINICS.—Four new dental clinics were completed during the year. One at Ayer Itam, Penang, was part of a Health Centre. The remaining three at Taiping, Kajang and Seremban were designed purely as dental clinics.

A school clinic staffed by a dental nurse was opened in Batu Road School, Kuala Lumpur.

EQUIPMENT AND STORES.—A steady but small stream of heavy equipment was received from the Crown Agents during the year and it was possible to equip all new clinics and partially replace worn and unserviceable equipment in existing clinics.

The delivery of dental materials, drugs and small instruments was on a normal scale and it has been possible to build up a reserve of these items.

UNICEF supplied seventy "field sets" of dental equipment for the use of dental nurses when posted to States and Settlements. This was a very useful contribution.

62. Scholarships.—Two dental officers proceeded overseas to take up a course for the F.D.S.R.C.S. England in London.

Two dental nurses were sent to New Zealand for post-graduate study in teaching of dental nurses and of Dental Health Education.

The Chief Dental Officer, Federation of Malaya, was attached for four months to the Division of Dental Hygiene, New Zealand, during 1951.

63. General.—The steady expansion in the dental treatment of the school children of Malaya is satisfactory. The number of operators is still completely inadequate to the task but the position is improving.

The establishment of dental nurses in schools under the supervision of the dental officer of the district is proving by far the most effective line of treatment.

The limiting factor in the training of adequate numbers of dental nurses is accommodation. There is an urgent need for additional accommodation at the Dental Nurses Training School if the school dental service is to be made sufficiently large to cope with dental disease in the Malayan schools. Training facilities are cramped but improvisation can compensate to a certain degree but it is impossible to accept trainees without being able to house them.

PART VII.

SPECIAL INSTITUTIONS.

64. Institute for Medical Research.—The Institute for Medical Research in Kuala Lumpur is a Federal Institution. Maintained by the Governments of the Federation of Malaya and Singapore, it is broadly based for scientific investigations also on the collaborative support of research teams from other

countries, and on a technical liaison with research workers in various parts of the world. The staff is largely Malayan but the work of the laboratories is not restricted to Malayan Establishment, and during the year hospitality was extended to a group of workers from the U.S. Army Research and Graduate School, Washington, and to a British Team financed by the Colonial Research Council. Now, more than ever in the past, co-operation is the key-note of scientific enquiry, and it is pleasant to record the harmony and sense of common purpose which continue to govern the relations of the Institute staff with the Malayan Medical Services, and with their welcome guests from abroad.

The work of the year has a wide range. Research on antibiotics continues in the Division of Bacteriology and promising new diagnostic tests for smallpox and tuberculosis are being developed in the Division of Pathology. Studies of the nutritional anæmias and of effects on the food value of rice of the conditions of cultivation, are being made in the Division of Biochemistry; and the work of the Divisions of Entomology and Malaria on the use of residual sprays for the control of malaria is yielding slow but encouraging results. The British Typhus Research Team continues to investigate the role of animals and their ectoparasites in the spread of scrub typhus and other diseases, while an American Unit is extending the earlier work on immunity in scrub typhus and on the treatment of typhoid fever with combined chloramphenical (chloromycetin) and cortisone. by American colleagues at the Institute that Japanese B virus is present in Malaya, and the indirect evidence assembled by Dr. S. R. Savoor of the occurrence in Malaya of Q fever, is likely to separate two more infections from the dwindling miscellary of undiagnosed fevers.

65. Bacteriology.—The Senior Bacteriologist, Dr. R. Green, was acting Director of the Institute for most of the year, but was able to continue his studies of anti-biotic-producing moulds and bacteria from Malayan soils and other sources. At the request of Sir Howard Florey, promising strains were sent for further investigation to the new antibiotic plant established by the Medical Research Council near Bristol. Two organisms were of unusual interest: a strain of streptomyces isolated from the gut of a white ant produced a wide-range antibiotic which also restrained the growth of the filamentous fungus Paecilomyces, a useful activity, suggests Dr. Green, which might serve to keep the ants subterranean "fungus gardens" free from bacteria of filamentous fungi which might otherwise overgrow them; and a sporing bacillus from a wasp's nest showed a remarkable proliferative activity in competition with pathogenic bacteria.

The bacteriological examination of Malayan waters has long been one of the responsibilities of the Division of Bacteriology. With some 35,000 examinations and much epidemiological experience over twenty years as a basis, Dr. Green draws conclusions in his report which have an important bearing on future policy in the control of Malayan water supplies.

66. BIOCHEMISTRY.—In the Division of Biochemistry continued studies on rice suggest that soil and growth conditions affect the mineral nutrients of the grain more than does the variety of strain. Attempts to prepare a parboiled rice which,

while retaining its nutritive value would be acceptable in colour and taste to people who usually eat white rice, have met with some success. The flavour and smell of the parboiled grain may be improved without loss of thiamin though the grain tends to break in milling: the yellow colour is more persistent and efforts to remove it by harmless bleaching agents have so far been unsuccessful. The cooking qualities of rice, too, are being studied. Some varieties yield discrete non-glutinous grains; others, like the "pulut" rice become soft and sticky. On the analogy of the "hard" and "soft" wheats the difference may be related to the amino-acid pattern of the rice protein, an assumption which is being studied by the methods of paper chromatography.

The anæmia survey of rural communities, begun in 1950, is nearly complete. The groups examined include Malay fishermen and smallholders, Indian and Chinese labourers, and aborigines. The degree of anæmia seems to be broadly related to the dietary pattern of the groups. The most severe forms of anæmia were found among the Indians and the Negrito-Senoi aborigines. Many treated cases responded well to the administration of iron, but the improvement did not last long, and permanent benefit, it seemed, would come only from rational feeding.

The assay of essential nutrients in foods, the determination of drug levels in the blood and tissues during experimental treatments, and estimations of the insecticides DDT and BHC on treated surfaces, continue to be an important activity of the Division of Biochemistry, often related, as Dr. Simpson shows in his report, to investigations in progress elsewhere.

Entomology.—The programme of experimental malaria control in Malay kampongs has continued, supported by a grant from the Colonial Development and Welfare Fund. spraying with DDT and BHC (Gammexane), has much reduced the malaria and almost stopped the transmission of infection, but falls short of eradicating the insect vectors, Anopheles maculatus. Further observations in window-trap huts confirm that an application of DDT at 200 mgm/sq. foot, or BHC at 40 mgm gamma/sq. foot, is effective for six months. heavy deposits, at least of BHC, are seldom found necessary in other countries, but a reduced dosage of 100 mgm DDT, or 10 mgm gamma BHC, was active for about two months only. The results of house spraying have been good but undramatic. They are slow to appear but they seem to be sure. They show that malaria transmitted by A. Maculatus may be controlled in Malay villages by spraying the houses twice a year, at a cost of about \$2 for every person protected, and they point clearly to important developments in malaria control policy for many rural areas. Anopheles maculatus is the most dangerous malaria carrier in Malaya and it is fortunate that this mosquito is comparatively sensitive to DDT. But other Malayan vectors, A. sundaicus and A. letifer, for example, are less susceptible and we have yet to show that the coastal malaria for which these mosquitoes are responsible will yield so readily to DDT as the malaria transmitted by A. maculatus in the inland plains and foothills.

Practical methods of using DDT as a larvicide in flowing water are being studied. A suitable emulsion has been devised and a low volume sprayer for applying solutions in oil is now available for general use. Comparative experiments suggest that BHC has no advantage over DDT as a larvicide, but early trials with the new insecticide Dieldrin are more promising.

Observations on the feeding and resting habits of adult mosquitoes have been extended to include the malaria vectors of the coastal plains A. barbirostris (dark winged) A. letifer, and A. sundaicus. An account of the systematics and biology of the hyrcanus group of Anopheles is complete and awaits publication. Filariasis problems are being investigated as time permits and a search is being made for the vector of the malaria parasite which infects Malayan squirrels.

68. Malaria.—What is the best way to treat acute malaria? How may the disease best be prevented in the kampongs of the Malays. Much of the work of the Division of Malaria Research was directed to these continuing problems. Nearly six hundred cases of malaria were treated experimentally, with results which Dr. Wilson reveals in his report. The failure of Paludrine when used alone in acute falciparum infection was again emphasised, while in contrast was the efficient clinical response to single doses of Resochin, Nivaquine and Camoquin. The new drug Daraprim, was less active than had been expected from preliminary trials elsewhere in bird malaria.

Resistance to proguanil, hitherto found in Malaya only in falciparum malaria, has now appeared in vivax infection. We may have to recognise, it seems, that the schizonticidal activity of this valuable drug is a dwindling asset, though its dominant place as a non-toxic gametocide and true causal prophylactic is still unchallenged. Towards the end of the year senior officers of the Army and of the Institute were able to discuss the problem of proguanil resistance with Sir Neil Hamilton Fairley, whose suggestion of a new experimental approach by a research group in Kenya is now being considered. Arising from this discussion is the possibility that resisting Malayan strains of P. falciparum may be examined afresh in human volunteers.

Kampong malaria remains the most difficult outstanding malaria problem in Malaya. Experimental control has continued in the Inas, Nuri and Terachi Valleys of Negri Sembilan and Dr. Wilson is now able to summarise the effects of two years work on the malaria situation. The houses of the Malays were sprayed with DDT or BHC (Gammexane) in two of the valleys, and suppressive proguanil was used in a third. The mosquito carrier was A. maculatus. The results are undramatic, but the steady recession of the malaria is encouraging. Proguanil given to the villagers once a week was quicker to take effect, but the hopes of the future are likely to be centered more on DDT.

69. Nutrition.—The Division of Nutrition, working with the Department of Fisheries, has continued the dietary and economic surveys started last year among the fisherfolk of Kampong Kuala Muda in Province Wellesley. The study of the effects of adding "Premix" to the diet of Malacca school children was suspended in June after eighteen months observation: no clearly demonstrable improvement was seen in

heights and weights or in the incidence of certain clinical evidences of dietary deficiency. The Division received a heavy setback in August with the departure from Malaya of Dr. R. C. Burgess, Senior Nutrition Officer, who was appointed Adviser on Nutrition to the World Health Organisation.

Pathology.—Two promising diagnostic tests are being studied by Dr. Savoor in the Division of Pathology. A serological test for smallpox, developed in 1949, remained essentially unassessed until a few months ago when some confirmation of its value was possible in two cases of smallpox, while the clinical value of a hæmagglutination test for tuberculosis is under trial. Material from man and animals is being collected to determine whether "Q" fever is present in Malaya, part of a world-wide survey sponsored by the World Health Organisation. This mild typhus-like fever, caused by Rickettsia (Coxiella) burneti, after Burnet who first described its occurrence in Australia, is now known in many parts of the world. Complement-fixation tests on 500 sera from man and animals in Malaya suggest that the infection is present, unrecognised among the miscellary of undiagnosed fevers. At the Ipoh branch of the Institute studies on rapid culture methods for the diagnosis of tuberculosis are being continued.

The characters and racial distribution of the so-called mixed salivary tumour in Malaya are being studied by Dr. Marsden. This growth, common among Malays and Chinese, often arises from the sub-maxillary salivary glands, a site of preference unusual among Europeans.

- FILARIASIS ENQUIRY.—The distribution of filariasis throughout Malaya, the complex patterns of transmission, the clinical features of W. malayi infection, the efficiency and permanence of treatment the possibilities of control by mass treatment or by DDT spraying of houses, are still but imperfectly Systematic studies are planned to begin in 1953 with the formation of a filariasis research team from the staff of the Divisions of Entomology and Malaria. Meanwhile, information is slowly accumulating. A survey of the Balik Pulau area of Penang Island in August revealed heavy infection: more than one-tenth of three hundred persons examined had elephantiasis and nearly one-third were infected. Hetrazan treatment has been continued in the Sungei Patani Government Hospital by members of the Kedah Medical Department; and many mosquitoes caught in filariasis areas of Kedah and Province Wellesley have been dissected. Over the area as a whole the main vectors seem to be three species of Mansonia, the darkwinged form of A. barbirostris and one form of A. hyrcanus, but their relative importance varies in different parts of the area.
- 72. Colonial Office Research Unit.—The work in Malaya of the typhus research team, supported by the Colonial Research Council and attached to the Institute since 1947, is to be extended until the end of 1953. The emphasis on scrub typhus becomes less emphatic as the Unit approaches the wider field of animal and insect-borne disease, a trend which suggests that the name "Medical Ecology Research Unit" might be more appropriate.

Throughout the year the Unit has continued to investigate the conditions under which scrub typhus and other diseases may spread in nature. A total of nearly 17,000 animals and their parasites has been studied; all published records of mites and hosts have been collated, while three years' data on the reproduction of rats have been analysed. How deforestation and cultivation encourages rats is stressed while the reproduction of the three Malayan forms of Rattus-rattus is shown to be related particularly to habitat, the most important form being the rice-field rat, about which a deal of new information has been collected.

The Unit is collaborating with colleagues in the Queensland Institute for Medical Research, the South Australian Museum, the Sarawak Museum and the Duke University, U.S.A.; but the closest collaboration has been with the U.S. Army Unit in Malaya in studies on the vector mites of jungle scrub typhus and of leptospirosis. A U.S. research expedition to North Borneo in July received some support from the Unit, and one officer spent two weeks at Mount Kinabalu. This expedition, led by Lt. Col. Traub, produced much useful information. Vector mites of scrub typhus were found in abundance and there is little doubt that opening up this country will reveal a good deal of infection. Plans are under discussion for further collaborative work with the U.S. team on this and allied problems.

U.S. Army Research Unit.—A fourth medical research team from the U.S. Army Research and Graduate School, Washington, arrived in Malaya in June and left in December. This team, led by Lt. Colonel Robert Traub, continued the earlier studies of the problems of immunity on scrub typhus with the possible goal of an effective method of immunisation: the results seem to be hopeful but the existence of several antigenically-distinct strains of Rickettsiæ complicates the problem. trials of combined Chloromycetin-Cortisone therapy in typhoid fever started last year, received fresh impetus from an outbreak of this disease in Kuala Lumpur towards the end of the year. Field studies have included the collection of strains of Leptospira. By using a new complement-fixation test the team hopes to throw light on the epidemiology of the disease, where it occurs and what strains of the organism are involved. The team's expedition to Mount Kinabalu in North Borneo in August yielded useful collections of mammals and their ectoparasites which are still to be sorted.

The presence in Malaya of Japanese B encephalitis, suspected for several years, was proved by the Team on the eve of their departure for the States in December. This arresting discovery has implications which are still to be explored. Elsewhere in the Orient this serious infection is mosquito-borne, and much work lies ahead on the transmission of the disease in Malaya and on the possible animal reservoirs of the virus.

74. ROUTINE.—The Institute maintains a diagnostic service for the Federation of Malaya and prepares some of the more important biological products. More than two million doses of vaccine lymph were prepared during the year, mostly for issue

throughout the Federation and to Singapore, Borneo and other territories: nearly one million doses were supplied to the Government of Burma. The demand for typhoid vaccine by the Health Department and the Security Forces remains high; and the persistence of rabies in northern Malaya has entailed the preparation of much protective vaccine and the examination of many suspected dogs for infection. Yellow fever vaccine is maintained at the Institute and the potency controlled by routine tests on mice, a necessary precaution against the possible entry of this disease into Malaya. More than 3,000 mice, rats, rabbits and guinea-pigs, bred in the animal house of the Institute, have been supplied to the laboratories or to outside institutions, a routine activity from which Miss Cheek has been able to collect interesting data on the breeding of monogamous paired mice. Some 70,000 examinations, bacteriological, biochemical, histological, serological, etc., were made for the Medical Services and private practitioners of the Federation.

The B.C.G. campaign in Malaya, controlled by the Medical Department, is now under way. The Division of Bacteriology, having agreed to dilute, bottle and distribute Copenhagen tuberculin for the preliminary diagnostic tests, issued during the year enough diluted tuberculin for some three quarters of a million tests.

LEPER SETTLEMENTS.

- 75. There are four Settlements in the Federation—Sungei Buloh in Selangor, Pulau Jerejak in Penang, Leper Settlement, Johore Bahru and the Leper Camp, Kota Bahru, Kelantan.
- 76. Leper Settlement, Sunger Buloh.—During the year the number of patients in the Settlement increased from 2,222 to 2,311: the distribution of the population is as follows:

Na	ational	lities.	Men.	Women.	Boys.	Girls.	Healthy Infants.	Total.
Chinese			 1,095	 529	107	60	. 16	1,807
Indians			 206	 $22 \dots$	10	4		242
Malays	• •		 189	 43	10	4	2	248
Others			 11	 2	1			14
		Total	 1,501	 596	128	68 .	. 18	2,311

There was considerable Communist activity in the immediate neighbourhood during the early part of the year which interfered with the normal routine.

Treatment.—Sulphone in oil is still the drug of choice and work is proceeding to find whether it will work—either in combination, or alternating with thiosemicarbasones. There is, of course, always the possibility of mycobacterium lepræ developing a resistance to one or the other; alternations and combinations are, therefore, being introduced in order to combat this.

Research.—A well equipped laboratory has been created and investigations so far have been linked with the assessment of the efficacy of therapeutics. This work is being carried out by Dr. F. S. Airey of the Colonial Research Service. The laboratory

is now capable of much more detailed and wider research. Photographic work is carried out here and will, in time, extend to cover all new admissions.

Welfare.—A new venture has been started of exporting groups for labour to the Forest Research Station. These groups are collected and returned daily in time for their treatment. This enables them to earn more money than they would inside, since employment within the Settlement is necessarily limited. It is hoped to extend this idea. The majority of the inmates are either employed by Government in the maintenance of the Settlement or find their own employment as shopkeepers, farmers or carpenters within the Settlement.

Hospital.—There were 1,711 admissions to hospital for treatment. The main cause of death apart from the leprosy factor was pulmonary tuberculosis which accounted for eight deaths out of a total of 35. During the year, 37 babies were born; one was still-born, one died at birth and the remainder are thriving in the "Babies Home".

The number of discharges is steadily increasing and during the period under review 326 cases were discharged as arrested cases from the Leper Settlement, Sungei Buloh.

77. Leper Settlement, Pulau Jerejak, Penang.—The Leper Settlement, Pulau Jerejak, is situated at the west side of the Penang Island. The nearest point of access to Penang is about two miles from Sungei Nibong. No visitors are allowed except by permit. All non-infectious cases are occasionally granted permission to visit their relatives.

The population of the leper settlement was 372 at the end of the year. There were 29 married couples and a special hut is reserved for pregnant cases who are given extra diets during the last two months. Babies born on the island, after the usual toilet, are immediately sent over to the Maternity Hospital, Penang, from where after six months they are transferred to the Social Welfare Department Orphanage.

Each community has its own club room for its social activities. The discipline on the island is excellent.

- 78. Mental Hospitals.—The military authorities who occupied the Mental Hospital, Tampoi, Johore Bahru, vacated the building sometime at the end of the year. Rehabilitation work has already started and admissions of mental patients will commence as soon as the institution is ready for occupation.
- 79. The Central Mental Hospital at Tanjong Rambutan deals with all cases of mental disease from the Federation of Malaya.

The admissions during the year were 1,975 as compared with 2,208 in the previous year. There were 1,416 discharges of whom 850 were graded as recovered, 397 as relieved and 169 as not improved. Deaths numbered 306 with a death rate of 6.05 per cent. of the 5,056 patients treated.

Deep insulin and electric convulsive therapy continued to be used with satisfactory results.

CENTRAL MENTAL HOSPITAL, TANJONG RAMBUTAN. RETURN OF INMATES FOR THE YEAR, 1951.

Summary of Nationalities.

_	Remaining at end of December, 1950.	Admissions.	Deaths.	Total treated.	Remaining at end of December, 1951.
Europeans		7		7	Had Stranks
Eurasians	16	5		.21	15
Chinese	1,910	1,132	211	3,042	2,109
Indians	411	426	34	837	426
Malays	735	400	61	1,135	765
Japanese	1			1	1
Others	8	5		13	10
Total	3,081	1,975	306	5,056	3,326
	ı	Summary by S	Sexes.		
Men	2,033	1,332	229	3,365	2,147
Women	1,027	623	75	1,650	1,141
Children:					
(1-10 yrs.)	21	20	2	41	38
Infants:					
(under 1 yr.)	_				
Total	3,081	1,975	306	5,056	3,326

Daily average number of inmates for 1951—3,172.

Number of beds—3,000.

80. The cost of maintaining the Mental Hospital is indicated below:

(i)	Person	al Emolu	ments	•	• •,	•••	\$811,910.27
(ii)	Clerica	al Service	• • •		••	•••	15,515.00
(iii)	Other	Charges,	Annuall	y R	curr	$_{ m ent}$	911,861.88
(iv)	Other	Charges,	Special	Exp	endit	ure	25, 505.79
(v)	Miscel	laneous Se	ervices	•	••	• • •.	492.85
				\mathbf{T}	otal	• • •	\$1,765,285.79

Capital expenditure, pension and leave charges are not included. The nett maintenance cost is \$556.52 per annum per patient treated.

Farms.—The number of patients working in the farms at the end of the year was 289 as compared with 278 in 1950. The pig farms are progressing steadily and supplying increasing amounts of pork.

- 81. Government Medical Stores.—The removal of the Medical Stores from Circular Road and the Equipment Store from Tanglin to the new buildings at the General Hospital, Kuala Lumpur commenced on 1st August, 1951. The arrangement of the new stores has increased the efficiency of the turn over of medical supplies to meet the increasing demands of the Medical Services.
- 82. Pharmaceutical Laboratory.—Equipment received during the year included a Glass Electrode p^H Meter and a Silverson Emulsifier. Routine chemical examinations and drug essays were carried out.

Over 183,759 ampoules were made as compared with 143,000 in 1950 and 62,221 pounds of galenicals and other preparations as compared with 56,319 in 1950.

The production of sulphone preparations for the treatment of leprosy was 287,232 doses and 617,936 of other preparations for injections were produced.

83. ORTHOPEDIC APPLIANCE CENTRE.—Though of recent development, the Centre has been kept busy throughout the year with demands coming in from the Federation, Singapore, Siam and the Far East Forces.

This Centre is now housed in the new building which was opened by the late Sir Henry Gurney on 12th January, 1951.

The volume of work has far exceeded the capacity of the present staff and equipment. Although this Centre is expensive to operate it has made it possible for many disabled persons to be rehabilitated and resume employment, in some cases their previous employment and, in many cases, with training, they have been able to take up employment of light manual type and have become once again useful citizens to the community.

CONCLUSION.

84. The year 1951 marked a revolutionary change in the rural areas. Resettlement of squatters had created an additional responsibility on the staff of the Medical Services. Proper methods of disposal of both nightsoil and refuse, efficient drainage and the important item of water supply was successfully tackled. Permanent anti-malarial measures were also embodied in the general planning.

It is encouraging to see that most of the future camps will be provided with community centres, schools, places of worship, playgrounds and other essential public amenities.

Although Malaya has been fortunate in recording a low incidence of malaria since the end of the war, there is significant increase in some parts of the Federation. This increase may be due either to mass movement of population on account of resettlement of squatters or more probably to increased security work in malarial areas.

A feature of the period under review was the steady rise in the amount of work demanded by the various branches of this Department with the coincident steady fall in the availability of trained staff.

TABLE 1.

IN-PATIENTS.

Intermedial Interm	iate st	Detailed list Number.	Cause Groups—(Diseases).	Remain- lng at end of 31st Dec., 1950.	Admls- sions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 195
			I.—INFECTIVE AND PARASITIC					
1 2		001-008	DISEASES. Tuberculosis of respiratory system	2,455	5,933	8,388	1,740	2,640
		010	Tuberculosis of meninges and central nervous system	10	223	233	154	7
3		011 012-013	Tuberculosis of intestines, peritoneum and mesenteric glands Tuberculosis of bones and joints	4 128	$\begin{array}{c} 65 \\ 329 \end{array}$	69 457	18 23	95
5	(a)	014	Tuberculosis of bones and joints Tuberculosis of skin and subcutaneous cellular tissue		27	30		1
	(b) (c)	$\begin{array}{c} 015 \\ 016 \end{array}$	Tuberculosis of lymphatic system Tuberculosis of genito-urinary system	21	$\begin{array}{c} 136 \\ 20 \end{array}$	157	6 3	10
	$\begin{pmatrix} (d) \\ (e) \end{pmatrix}$	$\begin{array}{c} 017 \\ 018 \end{array}$	Tuberculosis of adrenal glands Tuberculosis of other organs	2	$\frac{2}{28}$	$\frac{2}{30}$	4	2
6	(f)	$\begin{array}{c} 019 \\ 020 \end{array}$	Disseminated tuberculosis	5	$\begin{array}{c} 20 \\ 125 \end{array}$	20 130	37	
. 7	(a) (b)	021.0-021.1	Primary syphilis	$\begin{bmatrix} 9\\48 \end{bmatrix}$	272 784	$ \begin{array}{c c} 281 \\ 832 \end{array} $	1 1	46
	(c) (d)	021.3 021.4	Early syphilis, relapse following treatment					
8	(11)	$021.4 \\ 024 \\ 025$	Tabes dorsalis	1	11	12	3	
10	(a) (b)	$\begin{array}{c} 022 \\ 023 \end{array}$	Aneurysm of aorta Other cardiovascular syphilis	ī	14	15	5	1
	(c)	026	Other syphilis of central nervous system	1 - 2	19	21	2	9
	(d) (e)	$\begin{array}{c} 027 \\ 028 \\ 020 \end{array}$	Tertiary syphilis	25	275	300	8	14
. 11	$\begin{pmatrix} (f) \\ (a) \\ (b) \end{pmatrix}$	$029 \\ 030 \\ 031$	Syphilis unqualified Acute or unspecified gonorrhoea Chapita gonoradia footion of gonita.	21	347	368	11	1.9
	(0)	032	Chronic gonococcal infection of genito- urinary system	18 7	867 101	885 108		15
	(c) (d) (e)	$033 \\ 034-035$	Gonococcal infection of eye	2	50 53	52 53	i	2
12	(a) (b)	$\begin{array}{c} 040 \\ 041 \end{array}$	Typhoid fever Paratyphoid fever A, B or C	67	$\begin{array}{c} 915 \\ 36 \end{array}$	982 37	132	52
14	(b)	$042 \\ 043 \\ 043$	Other salmonella infections	1	13	14		
15	(a) (b)	$044 \\ 045 \\ 046$	Brucellosis (undulant fever)	5 35	$\begin{array}{c} 1\\186\\1,154\end{array}$	$ \begin{array}{c c} & 1 \\ & 191 \\ & 1,189 \end{array} $	15 39	39
	$\langle c \rangle$	047-048	Amoebiasis Other protozoal and unspecified forms of dysentery	8	447	455	13	9
17		$\begin{array}{c} 050 \\ 051 \end{array}$	Scarlet fever Streptococcal sore throat		1	1		
19		$\begin{array}{c} 052 \\ 053 \end{array}$	Erysipelas	2	$\begin{array}{c} 32 \\ 131 \\ \end{array}$	$\begin{array}{c} 32 \\ 133 \end{array}$	2 75	5 25
1 21 1 22 1 23		055 056	Diphtheria	26 18	1,065 241	$1,091 \\ 259 \\ 10$	$\begin{array}{c} 289 \\ 15 \\ 10 \end{array}$	25
24 25		$057 \\ 058 \\ 060$	Meningococcal infections Plague	3,080	$\frac{18}{746}$	3,826	69	3,152
26	(a) (b)	061	Leprosy Tetanus of the new-born	3	$\begin{array}{c} 183 \\ 219 \end{array}$	186 222	$\begin{array}{c} 154 \\ 112 \end{array}$	$\frac{3}{4}$
27		$\begin{array}{c} 062 \\ 080 \end{array}$	Anthrax Acute Poliomyelitis	4	179	183	21	6
1 29 1 30		$082 \\ 081 \\ 082$	Acute infectious encephalitis Late effects of acute poliomyelitis and	••	4	4	1	
31		083 <i>f</i> 084 085	acute infectious encephalitis Smallpox	6	$\begin{array}{c}2\\1,294\end{array}$	1,300	2	19
33		$\begin{array}{c} 085 \\ 091 \\ 092 \end{array}$	Measles	14	650	664	39	31
35	(a)	$\begin{array}{c} 094 \\ 100 \end{array}$	Rabies		5	5	3	
	(b) (c) (d)	$\begin{array}{c} 101 \\ 104 \end{array}$	Flea-borne endemic typhus (murine) Tick-borne cpidemic typhus	• •	104	104		1
	(d) (e)	105	Mite-borne typhus	13	$\begin{array}{c} 358 \\ 1 \end{array}$	371	11	13
		106-108 }	Carried forward	6,049	17,686	23,735	3,032	6,246

IN-PATIENTS—(cont.)

	t be r.	Detailed list Number.	Cause Groups—(Diseases).	Remaining at end of 31st Dec., 1950.	Admis- sions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951
			Brought forward I.—INFECTIVE AND PARASITIC	6,049	17,686	23,735	3,032	6,246
			DISEASES—(cont.)					
A 37	(a) (b)	$\begin{array}{c} 110 \\ 111 \end{array}$	Vivax malaria (benign tertian) Malariae malaria (quartan)	37	2,417 63	2,454 70	24 1	48
	(a) (b) (c) (d)	$\begin{array}{c} 112 \\ 114 \end{array}$	Faleiparum malaria (malignant tertian) Mixed malaria infections		7,537 359	7,605 359	162 9	103
	(e) (f)	$\left\{ egin{array}{c} 115 \\ 113 \\ 116-117 \end{array} ight\}$	Blackwater fever Other and unspecified forms of malaria	157	7,949	8,106	15 7	133
A 38	(a)	123.0	Schistosomiasis vesical (S. haematobium)					
	(b) (c)	$123.1 \\ 123.2$	Schistosomiasis intestinal (S. Mansoni) Schistosomiasis Pulmonary (S. japo-					
A 39	(d)	$123.3 \\ 125$	nieum) Other and unspecified Sehistosomiasis Hydatid disease		3	3		
A 40	(a) (b)	127	Onehocerciasis	• •	J	9		
	(b) (c) (d)	=	Filariasis (bancrofti) Other filariasis	4	155	159	• •	6
A 41 A 42	(a)	$\begin{array}{c} 129 \\ 126 \end{array}$	Ankylostomiasis Tape worm (infestation) and other	46	1,835	1,881	3	29
	(b)	130.0	cestode infestation	56	$\begin{matrix}&&7\\3,236\end{matrix}$	3,292	8	50
	(c) (d) (e)	$130.3 \\ 124 \\ 128$	Guinea worm (draeunculosis) Other trematode infestation Triehiniasis	• •	1	1		
A 43	(f)	130.1-130.2 036	Other diseases due to helminths Chaneroid	$\frac{1}{6}$	$\begin{array}{c} 201 \\ 194 \end{array}$	202 200	3	2 3
	(a) (b) (c) (d)	$\begin{array}{c} 037 \\ 038 \end{array}$	Lymphogranuloma venereum Granuloma inguinale, venereal	ĭ	213	214	• •	3 8
	(d) (e)	$\begin{array}{c} 039 \\ 049 \end{array}$	Other and unspecified venereal diseases Food poisoning infection and intoxi-	2	90	92	1	2
	(f) (g) (h)	059 063	cation Tularaemia	• •	78	78	1	
	(h)	064	Gas gangrene	• •	2	2		
	(i)	070	(c) Other bacterial diseases Vincent's infection		$rac{6}{1}$	6		
	(i) (j) (k)	$\begin{array}{c} 071 \\ 072 \end{array}$	Relapsing fever Leptospirosis icterohaemorrhagica		1	. 1		
	$\binom{(l)}{(m)}$	073	(Weil's disease) Yaws	$\begin{bmatrix} 2 \\ 61 \end{bmatrix}$	$\begin{array}{c} 20 \\ 746 \end{array}$	807 807		84
	$\binom{m}{n}$	086 087 088	Rubella	32	$\begin{array}{c} 7 \\ 676 \\ 176 \end{array}$	7 708	• •	5 6
	$\begin{pmatrix} (p) \\ (q) \end{pmatrix}$	089 090	Herpes Zoster Munips Dengue	• •	$\begin{array}{c} 176 \\ 123 \\ 82 \end{array}$	$egin{array}{c} 179 \\ 123 \\ 82 \\ \end{array}$	• •	17
	(n) (o) (p) (q) (r) (s) (t) (u) (v)	093 095	Glandular fever	16	16 105	16 121	• •	1 3
	(t) (u)	$\begin{array}{c} 096.7 \\ 120 \end{array}$	Sandfly fever Leishmaniasis		5	5		
	(v)	121	 (a) Trypanosomiasis gambiensis (b) Trypanosomiasis rhodesiensis (c) Other and unspecified trypano- 					
	(w) (x)	131 135	somiasis Dermatophytosis	27	1 911	1 000		25
	-(y)	$054,074 \ 096.1-096.6$	Scabies	27	1,311	1,338	• •	23
		096.8,096.9	All other diseases elassified as infective and parasitic	6	209	215	9	8
		132-134 136-138	II.—NEOPLASMS.					
A 44		140-148	Malignant neoplasm of buecal cavity					
A 45 A 46		150 151	and pharynx Malignant neoplasm of oesophagus	$\begin{bmatrix} 6 \\ 1 \\ 6 \end{bmatrix}$	$ \begin{array}{c c} 184 \\ 59 \\ 190 \end{array} $	190 60 196	45 19 100	5 3 6
11 10		101	Carried forward	6,594	45,948	52,542	3,579	6,797

IN-PATIENTS—(cont.)

media list Numb	t	Detailed list Number.	Cause Groups—(Discases).	Remaining at end of 31st Dec., 1950.	Admissions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951
			Brought forward	6,594	45,948	52,542	3,579	6,797
			II.—NEOPLASMS—(cont.)			;		
A 47	(a)	152	Malignant neoplasm of small intestine,					
	(b)	153	including duodenum Malignant neoplasm of large intestine, except rectum		36	36	17	1
A 48 A 49		154 161	Malignant neoplasm of rectum Malignant neoplasm of larynx	1	42 8	$\frac{42}{9}$.	12 5	2
A 50		162-163	Malignant neoplasm of trachea, and of bronchus and lung not specified as				10	
A 51 A 52		170 171	sccondary Malignant neoplasm of breast Malignant neoplasm of cervix uteri	4	$\begin{array}{c} 44\\76\\110\end{array}$	80 110	$ \begin{array}{c c} & 19 \\ & 11 \\ & 20 \end{array} $	$\frac{1}{4}$
A 53		172-174	Malignant neoplasm of other and un- specified parts of uterus	• •	110	110	20	
A 54 A 55		177 $190-191$	Malignant neoplasm of prostate Malignant neoplasm of skin	7	82	89	10	7
A 56 A 57	(a)	196-197 155-156	Malignant neoplasm of bone and connective tissue	5	171	176	73	9
,	(a) (b) (c)	1557 158	Malignant neoplasm of liver Malignant neoplasm of pancreas Malignant neoplasm of peritoneum	:: 3	11 5	11 5	6 4	
	(d)	159	Malignant neoplasm of unspecified digestive organs	1	40	41	13	
	(e) (f)	175-176 178-179	Malignant neoplasm of other and un- specified female genital organs	7	135	142	16	2
	(g)	180-181	Malignant neoplasm of other and un- specified male genital organs Malignant neoplasm of kidney, bladder		51	51	8	4
	(h)	160	and other urinary organs	••	28	28	в	1
		$egin{array}{c} 164-165 \\ 192-195 \\ 198-199 \end{array} brace$	Malignant neoplasm of all other and unspecified sites	9	160	169	46	9
A 58 A 59	(a)	$ \begin{array}{r} 198-199 \\ 204 \\ 200 \end{array} $	Leukaemia and Aleukaemia Lymphosarcoma and reticulosarcoma	2	34	36	13	1
	(b) (c)	$\begin{array}{c} 201 \\ 202 \text{-} 203 \end{array}$	Hodgkin's disease	• •	8	8	1	
A 60	(a)	210-211	haematopoietic system Benign neoplasm of buccal cavity,					
	(b)	217	pharynx and digestive system Benign neoplasm of other female genital organs		68	68		2
	(c)	218	Benign neoplasm of other male genital organs				•	
	(d)	$212-216 \ 219-229 \ 230$	Benign neoplasm of other and unspeci- fled organs and tissue	10	291	301	7	12
	(e) (f)	233-235	Neoplasm of unspecified nature of digestive organs					
	(g)	231-232	other female genital organs Neoplasm of unspecified nature of	• •	23	23	• •	1
		236-239 ∫	other unspecified organs	7	164	171	12	
			III.—ALLERGIC, ENDOCRINE					
			SYSTEM, METABOLIC AND NUTRITIONAL DISEASES		,			
			AND					
			IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS.					
A 61 A 62		250-251	Nontoxic goitre	3	66	69	1	$\frac{7}{2}$
A 63 A 64	(a)	$egin{array}{c} 252 \ 260 \ 280 \ \end{array}$	Thyrotoxicosis with or without goitre Diabetes mellitus	$\left egin{array}{c}2\\41\\24\end{array}\right $	14 643 676	16 684 700	2 41 59	44 51
	(b)	281	Pellagra		34	34	00	3.

IN-PATIENTS—(cont.)

Intermediate list Number.	Detailed list Number.	Cause Groups—(Diseases).	Remaining at end of 31st Dec., 1950.	Admis- sions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951
		Brought forward III.—ALLERGIC, ENDOCRINE SYSTEM, METABOLIC AND NUTRITIONAL DISEASES	6,717	48,9 6 8	55,685	3,981	6,966
		AND					
		IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS—(cont.)					
(c (d	282 283-284	Scurvy	1	$\frac{2}{30}$	$\frac{2}{31}$	6	1
(e (f		Osteomalacia	4	22	26	5	1
	286.5 286.1-286.4 \	(b) Malnutrition (c) Other deficiency states	8	457	465	31	17
A 65 (a	$ \begin{array}{c c} 286.6 & \cancel{5} \\ 290 & \end{array} $	Pernicious and other hyperchromic					
(b	291	anaemias Iron deficiency anaemias (hypo-	1	193	194	13	12
(c	292-293	chromic) Other specified and unspecified		2,266	2,428	133	197
A 66 (a)	241 240	And an	79 95	$\substack{1,406\\2,626}$	$1,485 \\ 2,721$	91 50	47 87
(c (d (e	242-245	Angioneurotic oedcma, urticaria and other allergic disorders	5	5 114	5 119	4	8
(f (g		mellitus	1 1	8	9	1	
(i	$\begin{vmatrix} 274 \\ 275-277 \end{vmatrix}$	Diseases of adrenal gland		8	8	• •	1
(g (h (i (j (k (l (m	288 287, 289 294	Gout Other metabolic diseases Polycythemia	12	$14\\167$	14 179		13 13
(n (o	295 296	Haemophilia		5	5	1	
(p (q (r		conditions		29 7 48	29 7 48	8 4 4	2
(r	299	Other diseases of blood and blood- forming organs	1	28	29	7	2
		V.—MENTAL, PSYCHONEUROTIC AND PERSONALITY DISORDERS.					
A 67 (a	300	Schizophrenic disorders (dementia praecox)	1	11	1.0	1	
(b) (c)	301 302	Maniac-depressive reaction Involutional melancholia		11 15	12 15	$\frac{1}{3}$	4
(b) (c) (d) (e) (f) (A 68 (a) (b) (c) (d) (e) (d) (e)	303 304 305-309 311	Paranoia and paranoid states Senile psychoses Other and unspecified psychoses Hysterical reaction	3,249	78 3,367	81 6,616	$\begin{array}{c} 22\\310\end{array}$	39 3,526
(b) (c) (d)	314 322 323	Neurotic-depressive reaction Alcoholism	2	293	295	2	1
(6	$\left \begin{array}{c} 312-313 \\ 315-321 \\ 324 \end{array}\right $	Other psychoneuroses and disorders of personality	3	319	322	4	11
A 69	326 325	Mental deficiency	3	34	37	1	1
	7-3	Carried forward	10,348	60,520	70,868	4,696	10,939

IN-PATIENTS—(cont.)

Inte media list Numb	ate t	Detailed list Number.	Cause Groups—(Diseases).	Remain- ing at end of 31st Dec., 1950.	Admissions.	Total cases treated.	Deaths.	Remain- ing at end of 31st Dec., 1951
			Brought forward	10,348	60,520	70,868	4,696	10,939
			VI.—DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS.					
A 70	(a) (b) (c)	331 332 330	Cerebral haemorrhage Cerebral cmbolism and thrombosis Other vascular lesions affecting central	6 20	182 185	188 205	132 64	6 21
A 71 A 72		$333-334 \int 340 \\ 345$	nervous system Non-meningococcal meningitis Multiple selerosis	3 2	172 2	175 4	110	4
A 73 A 74 A 75	(a) (b)	353 370 371-379 385	Epilepsy	$\begin{bmatrix} 1\bar{2} \\ 37 \\ 17 \end{bmatrix}$	$ \begin{array}{r} 327 \\ 2,565 \\ 301 \end{array} $	339 2,602 318	20	13 54 14
A 76 A 77	(a) (b) (c)	387 390 391-393 394	Glaucoma Otitis externa Otitis media and mastoiditis Other inflammatory diseases of ear Other inflammatory diseases of ear	2 9 6	162 373 143	164 382 149	 5 3	6 7 4
A 78	(a)	$\left. \begin{array}{c} 380\text{-}384 \\ 386,388 \\ 389 \end{array} \right\}$	All other diseases and conditions of eye	225	2,065	2,290	1	190
	(b) (c)	$\begin{array}{c} 342 \\ 343 \end{array}$	Intracranial and intraspinal abscess Encephalitis, myelitis and encephalo-	2	23	25	17	1
	(d) (e) (f)	350 352 356	myelitis Paralysis agitans Other cerebral paralysis Motor neurone disease and muscular	$\begin{bmatrix} & 4 \\ 6 \\ 132 \end{bmatrix}$	73 18 476	77 24 608	$\frac{36}{42}$	3 4 127
	(g) (h)	357 366	atrophy	8	$\frac{2}{34}$	2 42	4	10
	(i) (j)	367 369	neuralgia and neuritis Other diseases of cranial nerves Diseases of peripheral autonomic	49	1,361 21	1,410 21	2 9	43
	(k)	$\begin{bmatrix} 341, 344 \\ 351, 354 \\ 355 \\ 360-365 \\ 368 \\ 395-398 \end{bmatrix}$	All other diseases of the nervous system and sense organs	18	698	716	2	17
A 79	(a)	400	Rheumatic fever without mention of heart involvement	6	202	208	3	7
	(b)	401	Rheumatic fever with heart involvement	1 1	74	80	10	3
A 80	(c) (a) (b)	402 410-413 414	Chorea	• •	8	8		
	(c)	415	Other endocarditis specified as rheumatic					
	(d)	416	rhcumatic Other heart disease specified as	1	70	71	27	3
A 81	(a)	420	rheumatic disease,	6	81	87	25	3
	(b)	421	including coronary disease Chronic endocarditis not specified as rheumatic		658	696	135	42
A 82	(c) (a) (b) (c) (d) (e)	$422 \\ 430 \\ 431 \\ 432$	Other myocardial degeneration Acute and subacute endocarditis Acute myocarditis Acute pericarditis	$egin{array}{cccc} 20 & & & & & & & & & & & & & & & & & & $	$\begin{array}{c} 353 \\ 66 \\ 172 \\ 47 \end{array}$	373 67 181 49	$\begin{array}{c c} 142 \\ 10 \\ 57 \\ 14 \end{array}$	15 2 7 2 6
A 83 A 84	(d) (e)	433 434 440-443 444-447	Functional disease of heart Other and unspecified diseases of heart Hypertension with heart disease Hypertension without mention of heart		152 910 687	$ \begin{array}{c c} 162 \\ 950 \\ 705 \end{array} $	46 356 86	48 38
A 85	(a) (b)	450 451	General arteriosclerosis Aortic aneurysm specified as non-syphilitic and dissecting aneurysm	9	60	69	15	5
	(c)	452	Other aneurysm, except of heart and aorta	2	18	20	4	
			Carried forward	11,074	73,261	84,335	6,073	11,645

IN-PATIENTS—(cont.)

Internet in Intern	iate t	Detailed list Number.	Cause Groups—(Diseases).	Remaining at end of 31st Dec., 1950.	Admissions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951.
			Brought forward VII.—DISEASES OF THE CIRCULATORY SYSTEM—(cont.)	11,074	73,261	84,335	6,073	11,645
A 86	(d) (e) (f) (g) (a) (b) (c) (d) (e) (f)	$\begin{array}{r} 453 \\ 454 \\ 455 \\ 456 \\ 460, 462 \\ 461 \\ 463 - 464 \\ 465 \\ 466 \end{array}$	Pcripheral vascular disease Arterial embolism and thrombosis Gangrene of unspecified cause Other diseases of arteries Varicose veins Haemorrhoids Phlebitis and thrombophlebitis Pulmonary embolism and infarction Other venous embolism and thrombosis	5 3 5 19 2 2	64 47 107 887 49	69 50 112 906 51	5 9 1 1	. 8 3 1 22 2
	(f) (g)	467 468	Other diseases of circulatory system (a) Adenitis (b) Lymphadenitis (c) Other diseases of lymph nodes and lymph channels	$\begin{array}{c c} 15 \\ 12 \end{array}$	144 1,624 316	146 1,639 328 129	5	6 54 4
			VIII.—DISEASES OF THE RESPIRATORY SYSTEM.					
A 87	(a) (b) (c) (d) (e) (f)	470 471 472 473 474	Acute nasopharyngitis (common cold) Acute sinusitis	18 5	1,321 213	1,339 218	$\frac{3}{7}$	17 2
A 88	(a) (b)	475 480 481	Other acute upper respiratory infections	11 9	1,057 467	1,068 476	1 5	13 17
	(c)	482	manifestations, and influenza unqualified	82	4,864	4,946	6	76
	(d)	483	symptoms					
A 89 A 90 A 91		490 491 492-493	respiratory symptoms	29 57	897 2,670	926 2,727	135 1,022	24 46
A 92 A 93	(a) (b)	500 501 502	fied pneumonia	20 53 76 76	908 3,683 4,278 1,742	928 3,736 4,354 1,818	176 52 23 54	23 64 90 74
A 94 A 95 A 96 A 97	(a) (b)	510 518 521 519 517	Hypertrophy of tonsils and adenoids. Empyema Abscess of lung. Pleurisy	11 5 33	80 79 455	91 84 488	6 18 24	4 13 35
A 31	(a)	520	Other diseases of upper respiratory	• •	332	332	4	10
	(b) (c) (d) (e) (f) (g)	520 522 525 523 526 511-516	Spontaneous pneumothorax Pulmonary congestion and hypostasis Other chronic interstitial pneumonia Pneumoconiosis	6	77 1	83	26	3
	(9)	$\begin{bmatrix} 511-516 \\ 524 \\ 527 \end{bmatrix}$	All other respiratory diseases	25	838	863	42	20
			IX.—DISEASES OF THE DIGESTIVE SYSTEM.					
A 98	(a) (b)	$530 \\ 531-535$	Dental caries	9	407	416	••	8
			(b) Pyorrhoea	3	89	92	1	2
			supporting structures	15	1,088	1,103	9	18
			Carried forward	11,688	102,219	113,907	7,721	12,310

IN-PATIENTS—(cont.)

Intermedia list Numb	te	Detailed list Number.	Cause Groups—(Diseases).	Remain- ing at end of 31st Dec., 1950.	Admissions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951
			Dunial famous	11.000	100 010	110.007	# #a1	10.910
			Brought forward	11,688	102,219	113,907	7,721	12,310
•			IX.—DISEASES OF THE DIGESTIVE SYSTEM—(cont.)					
A 99 A 100		540 541	Ulcer of stomach Ulcer of duodenum	46 10	782 157	828 167	58 10	29 10
A 101 A 102 A 103	(a)	$543 \\ 550-553 \\ 560$	Gastritis and duodenitis	$\begin{array}{c} 80 \\ 32 \end{array}$	2,889 1,618	2,969 1,650	$\begin{array}{c} 24 \\ 37 \end{array}$	53 52
A 105	(b)	561	mention of obstruction Hernia of abdominal cavity with	39	843	882	4	38
	(c)	570	obstruction \dots	5	235 25	240 25	$\frac{22}{6}$	5
A 104	(a)	571.0	(b) Volvulus	3	141	. 144	62	3
	(b)	571.1	weeks and 2 years	28	2,017	2,045	640	34 66
A 105	(c) (a)	572 581.0	years and over		3,381	3,454	250	
A 100	(b)	581.1	alcoholism	$\left. ight\} = 25$	420	445	109	18
A 106 A 107	(a) (b) (a)	584 585 536	Cholelithiasis	$\frac{1}{6}$	$\begin{array}{c} 36 \\ 199 \end{array}$	$\begin{array}{c c} 37 \\ 205 \end{array}$	11	$\frac{1}{7}$
	(b) (c)	538 5 3 9	Other diseases of buccal cavity (a) Functional disorders of		99	0.4	9	7
			oesophagus (b) Stricture or obstruction of oesophagus	$egin{array}{cccccccccccccccccccccccccccccccccccc$	22 73	74	$\frac{3}{9}$	$\frac{1}{6}$
	(d) (e)	544 545	Disorders of function of stomach Other diseases of stomach and					
	(f)	573	duodenum (a) Constipation (b) Other functional disorders of	4	435	439		5
	(g)	574	intestines	11	878	889	10	13
	(g) (h) (i) (j)	575 576 578	Abscess of anal and rectal regions Peritonitis Other diseases of intestines and	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	$\begin{array}{c} 339 \\ 142 \end{array}$	341 144	83	14
	(k)	580	peritoneum		23	23	7	
	(l)	583	(b) Degeneration of liver	$\begin{array}{c} 18 \\ 21 \end{array}$	374 253	392 274	$\begin{array}{c} 31 \\ 36 \end{array}$	16 14
	(m)	586	Other diseases of gall-bladder and biliary ducts	7	193	200	$\frac{25}{6}$	8
	(n) (o)	587 $537,542$ $577,582$	Diseases of pancreas Other diseases of digestive system	• •	14	14	· ·	
			X.—DISEASES OF THE GENITO- URINARY SYSTEM.					
A 108		590	Acute nephritis	. 29	453	482	46	27
A 109	(a) (b)	591 592	Nephritis with oedema, including nephrosis	29	458	487	98	26
	(c)	593	Nephritis not specified as acute or chronic	31	446	477	62	19
A 110 A 111	(d) (a)	594 600 602	Other renal sclerosis	16 8	747 163	763 171	9	25 8
A 112 A 113	(\widetilde{b})	$\begin{array}{c} 604 \\ 610 \\ 620-621 \end{array}$	Calculi of other parts of urinary system Hyperplasia of prostate Diseases of breast	9 3 6	157 49 159	$egin{array}{c} 166 \\ 52 \\ 165 \\ \end{array}$	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	8 6 5 8
			Carried forward	12,235	120,340	132,575	9,387	12,831

IN-PATIENTS—(cont.)

	-		1	1 1		1	1	1
Inte media list Numk	ate	Detailed list Number.	Cause Groups—(Diseases).	Remaining at end of 31st Dec., 1950.	Admis- sions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951.
			Brought forward	12,235	120,340	132,575	9,387	12,831
			X.—DISEASES OF THE GENITO- URINARY SYSTEM—(cont.)					
A 114	(a)	603 605	Other diseases of kidney and ureter Cystitis	10 14	380 382	390 396	44 5	12
	(c)	606	Other diseases of bladder		106	106	2	3
	$\begin{pmatrix} (a) \\ (e) \end{pmatrix}$	$\begin{array}{c} \textbf{608} \\ \textbf{609} \end{array}$	Stricture of urethra Other diseases of urethra	$\begin{vmatrix} 11 \\ 3 \end{vmatrix}$	332 378	343 381	4	12 10
	$\begin{pmatrix} f \\ g \end{pmatrix}$	$\begin{array}{c} 612 \\ 613 \end{array}$	Other diseases of prostate	$\begin{bmatrix} 3 \\ 6 \end{bmatrix}$	116 197	119 203	3	5 4
	(ž)	614 617	Orehitis and epididymitis	5 9	320	325		13
	(b) (c) (d) (e) (f) (g) (h) (i) (j) (k)	622 625	Other diseases of male genital organs Acute salpingitis and oophoritis Other diseases of ovary and Fallopian		323	332	2	
	(1)	626	tube	14	368	382	7	14
	(m)	630	peritoneum (female) Infective disease of uterus, vagina and		11	11		
	(n)	633	Other diseases of uterus	26	1,013	1,039	12	27
	$\begin{pmatrix} (o) \\ (p) \\ (q) \end{pmatrix}$	$\begin{array}{c} 634 \\ 637 \end{array}$	Disorders of menstruation Other diseases of female genital organs	15	643	658	2	22
	-(q)	$601 \\ 607, 611$						
		$ \begin{array}{c} 615-616 \\ 623-624 \\ 631-632 \end{array} $	All other diseases of the genito-urinary system					
		635- 636 J	XI.—DELIVERIES AND COMPLI-					
			CATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM.					
A 115	(a)	640	Pyelitis and pyelonephritis of					
	(b)	641	other infections of genito-urinary tract					
	(c)	681	during pregnancy Sepsis of childbirth and the puerperium	5	168	173	21	8
	(d) (e)	$\begin{array}{c} 682 \\ 684 \end{array}$	Puerperal phlebitis and thrombosis Puerperal pulmonary embolism	• •	$\frac{3}{7}$	$\begin{vmatrix} 3 \\ 7 \end{vmatrix}$	1	
A 116	(a)	642	(a) Albuminuria of pregnancy (b) Eelampsia of pregnancy		165 208	165 210	$\begin{array}{c} 3 \\ 44 \end{array}$	5 11
			(c) Hyperemesis gravidarum	$\begin{bmatrix} 2 \\ 3 \end{bmatrix}$	147	150	6	3
		aro	(d) Acute yellow atrophy of liver (e) Other toxaemias of pregnancy	14	$\begin{array}{c} 4 \\ 244 \end{array}$	$\begin{vmatrix} 258 \end{vmatrix}$	$\frac{1}{16}$	6
	(b)	652	Abortion with toxaemia, without mention of sepsis		36	36	2	
	(c) (d)	$\begin{array}{c} 685 \\ 686 \end{array}$	Puerperal eclampsia Other forms of puerperal toxaemia	3	49 74	49 77	$\begin{array}{c} 23 \\ 6 \end{array}$	2 4
A 117	(a) (b)	$\begin{array}{c} 643 \\ 644 \end{array}$	Placenta praevia Other haemorrhage of pregnancy	1 4	98	99	$\begin{array}{c} 13 \\ 17 \end{array}$	4
	(c)	670	Delivery complicated by placenta		185	189		1
	(d)	671	praevia or antepartum haemorrhage Delivery complicated by retained placenta		136	137	23	
	(e)	672	Delivery complicated by other post- partum haemorrhage	4	269	273	86	5
A 118		650	Abortion without mention of sepsis or	48	2,378	2,426	5	39
A 119 A 120	(a)	$\begin{array}{c} 651 \\ 645 \end{array}$	Abortion with sepsis					
A 120	(b) (c)	646 683	Ectopic pregnancy Anaemia of pregnancy Pyrexia of unknown origin during the	3	104	107	14	3
	(d) (e)	$\begin{array}{c} 688.1 \\ 689 \end{array}$	puerperium	2	13	15	3	
	(f)	647-649	lactation	••	23	23		
		673-680	Other complications of pregnancy,					
		$\begin{bmatrix} 688.0 \\ 688.2 - 688.3 \end{bmatrix}$	childbirth and the puerperium	54	2,142	2,196	81	42
	(g)	660	Delivery without complications	720	37,256	37,976	• •	821
			Carried forward	13,215	168,618	181,833	9,837	13,923

IN-PATIENTS—(cont.)

	er.	Detailed list Number.	Cause Groups—(Discases).	Remaining at end of 31st Dec., 1950.	Admis- sions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951
			Brought forward	13,215	168,618	181,833	9,837	13,923
			XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE					
			AND					
			XIII.—DISEASES OF THE BONES AND ORGANS OF MOVEMENT.					
A 121	(a)	690	Boil and carbuncle	37	1,010	1,047	5	16
	(b) (c)	691-693 694-698	Cellulitis and abscess Other infections of skin and subcutaneous tissue	192	5,219	5,411	35	145
A 122	(a)	720	Acute arthritis due to pyogenic					
	(b) (c)	721 722	Acute nonpyogenic arthritis					
4 100	(d)	723-725	conditions	10	337	347		14
A 123 A 124	(a) (b)	726 727	Muscular rheumatism	$egin{array}{c} 23 \ 3 \ 27 \ \end{array}$	$922 \\ 112 \\ 382$	945	$\frac{4}{\alpha}$	24
	(a) (b)	730 737 745-749	Osteomyelitis and periostitis		964	409	6	39
A 126	(a)	715	deformities					
	(b)	700-714	tropical ulcer) All other diseases of skin	$egin{array}{c c} 220 & \\ 180 & \\ \end{array}$	$\frac{3,579}{5,042}$	$\begin{vmatrix} 3,799 \\ 5,222 \end{vmatrix}$	5 4	196 147
	(c)	$716 \ 731-736 \ 738-744 $	All other diseases of musculoskeletal system	106	1,771	1,877	10	73
		100-144)	system	100	1,771	1,011	10	13
			XIV.—CONGENITAL MALFORMATIONS.					
A 127 A 128		751 754	Spina bifida and meningocele Congenital malformations of		3	3	1	
	(a)	750	circulatory system	3	$\begin{array}{c} 37 \\ 4 \end{array}$	40	19 3	
	(b) (c)	752 753	Congenital hydrocephalus Other congenital malformations of	2	30	32	10	4
	(d)	755	nervous system and sense organs Cleft palate and harelip	4	152	156	1	4
	(e)	756	(a) Congenital hypertrophic pyloric stenosis	3	4 45	4 48	4 12	
		4.	(c) Other congenital malformations of digestive system	9	40	40	12	
((f)	757	Congenital malformations of genito- urinary system					
	(g)	758	Congenital malformations of bone and joint	l.				
	(h)	759	Other and unspecified congenital malformations, not elsewhere classified	5	75	80	15	3
			classified	3	73		10	J
			XV.—CERTAIN DISEASES OF EARLY INFANCY.					
A 130	(a) (b)	760 761	Intracranial and spinal injury at birth Other birth injury		70	70	45	2
A 131 A 132	(a)	762 764	Postnatal asphyxia and atelectasis Diarrhoea of newborn		61	61	49	~
	(b) (c)	$765 ext{ } , $	Ophthalmia neonatorum	2	31	33	23	
	(d)	766	Pemphigus nconatorum	14,032	$\frac{5}{187,509}$	$\frac{5}{201,541}$	$\frac{3}{10,091}$	14,593

IN-PATIENTS—(cont.)

		l Hospitals including Speci			(55-51)		
Inter- mediate list Number.	Detailed list Number.	Cause Groups—(Diseases).	Remaining at end of 31st Dec., 1950.	Admis- sions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951
		Brought forward	14,032	187,509	201,541	10,091	14,593
		XV.—CERTAIN DISEASES OF EARLY INFANCY—(cont.)					
(e) A 133 A 134	770 769	Umbilical sepsis Other sepsis of newborn Haemolytic disease of newborn All other defined diseases of early	• •	31	31	15	1
A 135 (a) (b) (c)	771-772 } 773 774 775-776	infancy Congenital debility Premature birth Other ill-defined discases peculiar to	1 21	71 1,481	72 1,502	26 723	1 15
		early infancy and immaturity unqualified	7	478	485	110	3
		XVI.—SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS.					
A 136 A 137 (a) (b) (c)	794 780 788.8	Senility without mention of psychoses Infantile convulsions	7	1,213 195	1,626 202	380 81	297 2
(c) (d)		Observation, without need for further medical care	271	5,504	5,775	1	269
(1)	$\begin{bmatrix} 789-792 \\ 795 \\ 788.1-788.7 \\ 788.9 \end{bmatrix}$	(a) Malingering (b) Sudden death (cause unknown) (c) Found dead (cause unknown) (d) Other ill-defined and unknown	• •	157 8	157 8	8	1
		causes of morbidity and mortality		5,254	5,428	142	188
		XVII.—ACCIDENTS, POISONINGS AND VIOLENCE.					
		"E" CODE: ALTERNATIVE CLASSIFI- CATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSES).				`	
(b) (c)	E 810-E 835 E 800-E 802 E 850-E 858 E 860-E 866	Motor vehicle accidents Railway accidents Water transport accidents Aircraft accidents	157 1	3,268 74 2 1	3,425 75 2 1	311 6	132 4
AE 140 (a)	E 840-E 845 E 870	Other transport accidents Accidental poisoning by morphia and other opium derivatives	33	736	. 769	2	12
(b) (c)		Accidental poisoning by other analgesic and soporific drugs		.00	03		12
(d)		unspecified drugs					
(e)		aromatics, acids and caustic alkalies Accidental poisoning by mercury and its compounds					
(f) (g)		Accidental poisoning by lead and its compounds		7	7		
(b) (h)		antimony and their compounds Accidental poisoning by other and	4	85	89	7	4
	E 890-E 895	unspecified solid or liquid substances Accidental poisoning by gases and	$\lfloor \frac{2}{2} \rfloor$	115	117	6	1
(<i>j</i>)	E 871-E873 E 875-E877 E 879-E882	Other accidental poisoning	1	51	52	2	
AE 141 AE 142 AE 143	E 887 E 900-E 904 E 912 E 916	Accidental falls	245 17	7, 895 2 84	8,140 301	124 4	283 12
	ry sprifts make de	Carried forward	15,386	214,420	229,806	12,040	15,818

IN-PATIENTS—(cont.)

Inter- mediate list Number.	Detailed list ' Number.	Cause Groups—(Diseases).	Remaining at end of 31st Dec., 1950.	Admissions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951
		Brought forward	15,386	214,420	229,806	12,040	15,818
		XVII.—ACCIDENTS, POISONINGS AND VIOLENCE—(cont.)					
		"E" CODE: ALTERNATIVE CLASSIFI- CATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSES) —(cont.)	}				The state of the s
AE 144	E 917-E 918	Accident caused by hot substance,					
AE 145 AE 146 AE 147 (a)	E 919 E 929 E 920 E 923	corrosive liquid, steam and radiation Accident caused by firearm Accidental drowning and submersion Foreign body entering eye and adnexa	$oxed{\begin{array}{c}22\\ \dots\end{array}}$	384 15	406 15	36	23
(c)	E 927	Foreign body entering other orifice Accidents caused by bites and stings of		070	600		10
(d) AE 148 (a)	E 928 E 913	venomous animals and insects Other accidents caused by animals Accidents caused by cutting or piercing	$\begin{vmatrix} 10 \\ 13 \end{vmatrix}$	679 588	689 601	$\frac{9}{2}$	10 8
(b) (c) (d)	E 914 E 925 E 926	instruments	61	2,025 18	2,086		80
(e)	E 931	age Excessive heat		$\begin{array}{c} 2\\17\end{array}$	$\frac{2}{17}$		
(f)	E 932 E 933	Excessive cold					
$(q) \\ (h) \\ (i) \\ (j)$	E 934 E 935	Cataclysm Lightning		12	12	0	10
(1)	E 936	(a) Accidents in mines and quarries (b) Agricultural and forestry		256 182	273 186	2	12
		accidents (c) Accidental injury by crushing or	4			5	
(k)	E 940	landslide (d) Other and unspecified accidents Generalized vaccinia following		1,087 583	1,119 598	16	12
	E 940 E 941-E 942	vaccination Other complications of smallpox	4	ő	6		
(m)	E 954	vaccination					
(n)	E 950-E953 \ E 955-E959 }	Accidents due to medical or surgical intervention		<i>y</i> 8	8	6	1
(0)	E 970	Suicide and self-inflicted injury by analgesic and soporific substances.		6	6	2	
<i>(p)</i>	E 971	Suicide and self-inflicted injury by other solid and liquid substances.	7	205	206	51	9
(q)	E 972	Suicide and self-inflicted injury by gases in domestic use					
(r)	E 973	Suicide and self-inflicted injury by other gases	7				And the second s
(8)	E 974	Suicide and self-inflicted injury by hanging or strangulation	-	18	18	5	1
(t)	E 975	Suicide and self-inflicted injury by	1	10	10	$\frac{1}{2}$	
(u)	E 976	submersion (drowning) Suicide and self-inflicted injury by		5	7	1	1
(v)	E 977	fircarms and explosives Suicide and self-inflicted injury by	7			12	3
(w)	E 978	cutting or piercing instruments Suicide and self-inflicted injury by	1	62	63	2	3
(x)	E 979	jumping from high place Suicide and self-inflicted injury by		3	3		
(y)	E 910-E911 E 915	other and unspecified means	. 4	14	18	1	
	E 921-E922 E 924-E930 E 943-E946 E 960-E965	All other accidental causes	. 95	722	817	17	19
AE 149 (a	E 980	Non-accidental poisoning by another person	r				
		Carried forward	15,664	221,326	236,990	12,221	16,041

IN-PATIENTS—(cont.)

		<i>1 J</i> 1					
Inter- mediate list Number.	Detailed list Number.	Cause Groups—(Diseases).	Remain- ing at end of 31st Dec., 1950.	Admissions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951.
		Brought forward XVII.—ACCIDENTS, POISONINGS AND VIOLENCE—(cont.)		221,326	236,990	12,221	16,041
		"E" CODE: ALTERNATIVE CLASSIFI- CATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSES) —(cont.)					
(b) (c)	E 981 E 982	Assault by firearm and explosive Assault by cutting or piercing	79	983	1,062	119	50
(d) (e) (f) AE 150	E 983 E 984 E 985 E 990-E 999	instruments	15 34	635 1,689	650 1,723	20 11	11 48
		"N" CODE.—ALTERNATIVE CLASSI- FICATION OF ACCIDENTS, POISONING, AND VIOLENCE (NATURE OF INJURY).					
AN 138 AN 139 AN 140 AN 141 AN 142	N 800-N 804 N 805-N 809 N 810-N 829 N 830-N 839 N 840-N 848	Fracture of skull Fracture of spine and trunk Fracture of limbs Dislocation without fracture Sprains and strains of joints and					
AN 143 AN 144	N 850-N 856 N 860-N 869	adjacent muscles Head injury excluding fracture Internal injury of chest, abdomen and					
AN 145 AN 146	N 870-N 908 N 910-N 929	pelvis					
AN 147	N 930-N 936	crushing with intact skin surface Effects of foreign body entering					
AN 148 AN 149 AN 150	N 940-N 949 N 960-N 979 N950-N959 N980-N999	through orifice Burns Effects of poisons All other and unspecified effects of external causes	49	1,242	1,291	82	51
		TOTAL	15,841	225,875	241,716	12,453	16,201

IN-PATIENTS—(cont.)

RETURN OF DISEASES AND DEATHS FOR THE YEAR 1951—(cont.)

(All Hospitals including Special Institutions)—(cont.)

	N	Vational	ities.			Remaining at end of 31st Dcc., 1950.	Admis- sions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951.
Europeans Eurasians Chinese Indians Malays Javanese Japanese Others				 TOTAL		58 55 9,510 3,191 2,910 64 1 52	2,565 1,036 94,109 71,386 53,974 1,475 9 1,321 225,875	2,623 1,091 103,619 74,577 56,884 1,539 10 1,373 241,716	47 43 8,355 2,672 1,191 78 1 66	69 62 9,698 3,216 3,004 86 2 64
Healthy p	erson ny chil		itted friend	ospitals 	to	192	10,378	10,570		193

SUMMARY ACCORDING TO MEN, WOMEN AND CHILDREN.

	_		Remaining at end of 31st Dec., 1950.	Admis- sions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951.
Men		 TOTAL	10,631 4,341 639 230 15,841	119,524 78,519 16,011 11,821 225,875	130,155 82,860 16,650 12,051 241,716	5,636 2,160 1,675 2,982 12,453	10,640 4,717 583 261 16,201

Summary According to Hospitals and Average Daily Number of Patients.

_	Remaining at end of 31st Dec., 1950.	Admissions.	Total cases treated.	Deaths.	Remaining at end of 31st Dec., 1951.	A verage	No. of beds.
1. Kedah 2. Perlis 3. Penang and Province Wellesley 4. Perak 5. Selangor 6. Negri Sembilan 7. Malacca 8. Johore 9. Kelantan 10. Trengganu 11. Pahang 12. Leper Settlement, Sungei Bulch 13. Leper Settlement, Johore Bharu 14. Leper Settlement, Johore Settlement, Johore Sharu 15. C. M. H., Tanjong Rambutan	725 101 1,248 1,913 1,473 979 580 1,575 330 199 620 2,222 392 403 3,081	27,353 3,039 21,016 49,229 29,424 22,719 11,073 33,908 5,951 3,644 15,947 509 67 21	28,078 3,140 22,264 51,142 30,897 23,698 11,653 35,483 6,281 3,843 16,567 2,731 459 424 5,056	856 107 1,344 2,747 1,978 1,095 699 2,106 190 121 838 36 16 14	790 81 1,258 1,937 1,513 1,009 648 1,485 309 190 568 2,311 404 372 3,326	\$54 97 1,326 2,058 1,627 1,045 662 1,605 302 185 623 2,282 403 386 3,172	1,039 124 1,727 2,686 1,808 1,198 837 2,219 440 302 787 2,650 302 500 3,000
TOTAL	15,841	225,875	241,716	12,453	16,201	16,627	19,619

TABLE 1A.

STATEMENT OF GENERAL HOSPITALS, DISTRICT AND MATERNITY HOSPITALS.

State/Settlement.	Average daily number of patients.	Patients remaining at the end of the year.	Patients admitted.	Deaths.	Death rate per 100 patients treated.
КЕДАН.					
General Hospital, Alor Star District Hospital, Sungei Patani District Hospital, Kulim District Hospital, Baling District Hospital, Langkawi	425 174 185 22 48	397 119 151 16 42	11,721 7,348 6,418 957 909	406 225 192 12 21	3.4 3.0 2.9 1.2 2.2
PERLIS.					
District Hospital, Kangar	97	101	3,039	107	3.4
PENANG AND PROVINCE WELLESLEY.					
General Hospital, Penang Maternity Hospital, Penang Perak Road Hospital, Penang Prison Hospital, Penang District Hospital, Balik Pulau	538 63 42 9 11	496 64 35 5 7	8,929 3,279 34 441 269	842 65 15	8.9 1.9 21.7
* Detention Camp Hospital, Pulau Jerejak	12	10	184		
Tuberculosis Hospital, Pulau Jerejak	342 100	369 87	273 2,360	64 94	9.9
District Hospital, Bukit Mertajam District Hospital, Sungei Bakap		85 90	3,383 1,864	130 134	3.7 6.9
PERAK.					
District Hospital, Parit Buntar District Hospital, Taiping District Hospital, Kuala Kangsar Women's Hospital, K. Kangsar District Hospital, Ipoh General Hospital, Batu Gajah District Hospital, Kampar District Hospital, Tapah District Hospital, Tanjong Malim District Hospital, Telok Anson District Hospital, Lumut District Hospital, Grik	82 536 245 74 158 34 194 161	34 384 87 57 502 241 83 146 24 196 154	1,922 8,923 3,016 2,478 12,039 4,762 2,761 3,230 1,787 4,634 3,260 417	47 530 69 123 926 265 111 137 62 271 193 13	2.4 5.7 2.2 4.8 7.4 5.3 3.9 4.0 3.4 5.6 5.7 3.1
SELANGOR.					
Bungsar Hospital, Kuala Lumpur General Hospital, Kuala Lumpur † Tanglin Hospital, K. Lumpur Tuberculosis Hospital, K. Lumpur	553 r 66 r 114	459 84	1,009 14,372 197 124	31 1,174 5 36	3.0 6.1 1.8 15,1
Tai Wah (Decrepit) Hospital Kuala Lumpur Police Depot Hospital, Kuala	115	435	204	152	23.8
Lumpur Prison Hospital, Kuala Lumpur. District Hospital, Klang District Hospital, Kajang	20 17 211 119		1,029 202 5,515 4,776	1 342 143	0.5 6.0 2.9
District Hospital, Kuala Kubu Bahru	69	46	1,996	94	4.6
NEGRI SEMBILAN.					
General Hospital, Seremban District Hospital, Kuala Pilah Women's Hospital, Kuala Pilah District Hospital, Port Dickson District Hospital, Tampin District Hospital, Jelebu Prison Hospital, Seremban	227 91 110 79 76	402 196 90 115 90 82 4	9,725 3,770 2,194 2,128 2,628 2,037 237	597 113 115 104 98 67 1	5.9 2.8 5.0 4.6 3.6 3.2 0.4
Carried forward	7,007	6,439	152,780	8,127	

^{*} Cloted in September, 1951.

STATEMENT OF GENERAL HOSPITALS, DISTRICT AND MATERNITY HOSPITALS—(cont.)

State/Settlement.	Aver dai numb patie	ly er of	Patients remaining at the end of the year.	Patients admitted.	Deaths.	Death rate per 100 patients treated.
Brought forward	7	,007	6,439	152,780	8,127	
MALACCA.						
General Hospital, Malacca Detention Camp Hospital,		559	486	10,616	684	6.2
Malacca District Hospital, Alor Gajah Prison Hospital, Malacca Quarantine Camp Hospital, Malacca	Saleston	70 31 2	65 27 2	$egin{array}{c} 370 \\ 25 \\ 36 \\ 26 \\ \end{array}$	15	28.8
JOHORE.						
General Hospital, Johore Bahru 3rd Mile Hospital, Johore Bahru District Hospital, Pontian District Hospital, Batu Pahat District Hospital, Muar District Hospital, Tangkak District Hospital, Segamat District Hospital, Kluang District Hospital, Kota Tinggi District Hospital, Mersing		611 101 56 133 193 59 132 191 97 32	586 190 54 128 180 56 113 176 72 20	10,922 14 1,364 2,945 4,085 1,520 4,131 5,520 2,148 1,259	661 18 69 180 377 54 327 279 98	5.7 8.8 4.9 5.9 8.8 3.4 7.7 4.9 4.4 3.0
KELANTAN.						
State Hospital, Kota Bahru District Hospital, Kuala Krai Prison Hospital, Pkg. Chepa		237 36 5	260 40 3	4,401 1,447 87	163 23 2	3.5 1.5 2.2
TRENGGANU.						
District Hospital, K. Trengganu District Hospital, Kemaman District Hospital, Dungun	1	129 36 20	138 41 20	1,983 841 820	61 41 19	2.9 4.6 2.3
PAHANG.						
District Hospital, Kuala Lipis District Hospital, Kuantan District Hospital, Raub District Hospital, Bentong District Hospital, Mentakab District Hospital, Pekan		109 147 98 101 110 58	109 124 106 105 106 70	3,249 2,958 3,406 1,934 3,465 935	168 157 177 162 155 19	5.0 5.1 5.0 7.9 4.3 1.9
	10),360	9,716	223,287	12,075	
SPECIAL INSTITUTIONS.						
Leper Settlement, Sungei Buloh. Leper Settlement, Johore Bahru Leper Settlement, Pulau Jerejak Leper Camp, Kota Bahru Central Mental Hospital, Tanjong		2,282 403 386 24	2,222 392 403 27	509 67 21 16	36 16 14 2	1.3 4.6 3.3 4.7
Rambutan		3,172	3,081	1,975	306	6.1
TOTAL	10	6,627	15,841	225,875	12,449	5.2

TABLE 2.

MALARIA ADMISSIONS BY STATES AND MONTHS FOR 1951.

Total.	2,502	468	750	3,088	995	2,201	874	3,395	998	724	2,462	18,325
Dec.	132	54	42	242	73	182	97	331	84	64	251	1,501
Nov.	144	41		248	94	247	58	322	87	62	283	1,624
October.	125	∞	45	218	107	253	74	431	62	58	251	1,632
Sept.	142	14	54	284	115	281	110	465	79	80	236	1,860
August.	201	43	85	285	87	240	116	303	62	63	238	1,737
July.	263	48	75	335	126	252	94	354	68	64	288	1,988
June.	392	74	66	272	105	217	138	341	103	81	252	2,074
May.	346	52	80	232	81	177	88	314	91	62	172	1,712
April.	280	31	62	214	45	103	40	180	19	46	159	1,238
March.	180	32	56	236	53	7.4	49	114	22	51	113	1,015
Feb.	135	35	42	228	39	99	56	86	25	40	87	821
Jan.	162	36	58	294	20	109	35	142	67	36	132	1,123
State or Settlement.	Kedah	Perlis	Penang and P. Wellesley	Perak	Selangor	Negri Sembilan	Malacca	Johore	Kelantan	Trengganu	Pahang	Total

TABLE 3.

SURGICAL OPERATIONS FOR 1951.

State or Sett	lement.			Operations.	Deaths.
Kedah				 1,947	10
Perlis				 223	
Penang and Pro	vince	Welle	słey	 4,068	57
Perak				 14,641	80
Selangor				 8,368	59
Negri Sembilan				 1,793	25
Malacca				 1,962	25
Johore				 6,574	41
Kelantan				 717	11
Trengganu				 828	1
Pahang				 1,919	4
			Total	 43,040	313

TABLE 4.

OPHTHALMIC PATIENTS FOR 1951.

State/Settle	ement.		Eye diseases proper.	Eye injuries.	Refrac-	General diseases affecting eyes.	Disor- ganised eyes.	Total.	Opera- tions.
Kedah			2,962	121	386	192	36	3,697	285
Perlis			80	9		10		99	6
Penang and Pa Wellesley	ovin	се	3,664	277	628	363	69	5,101	541
Perak			5,199	457	2,236	84	53	8,029	867
Selangor			5,106	695	1,847		176	7,824	340
Negri Sembilar	٠		1,829	108	530	27	.18	2,512	45
Malacca			1,512	143	967	40	34	2,696	277
Johore		• •	1,748	160	3,323	95		5,326	
Kelantan			7,019	6	66	13		7,104	11
Trengganu			-				_		
Pahang			2,004	6	48	5	_	2,063	
	Total		31,123	1,982	10,031	829	386	44,451	2,372

Table 5.

SUMMARY OF OUT-PATIENTS TREATED IN EACH STATE AND SETTLEMENT FOR 1951.

(Excluding those who were treated at Infant Welfare Centres, School Inspections and Special Clinics.)

Hospitals and Dispensaries.	Adult Males.	Adult Females.	Children under 10 years.	Total.
			1 1	
KEDAH.				
At Hospitals and Dispensaries	77,286	53,3 72	57,888	188,546
By Travelling Dispensaries	21,456	6,361	11,577	39,394
Total	98,742	59,733	69,465	227,940
PERLIS.				
At Hospitals and Dispensaries	12,381	7,354	11,174	30,909
By Travelling Dispensaries	1,728	961	1,956	4,645
Total	14,109	8,315	13,130	35,554
PENANG AND PROVINCE WELLESLEY.				
At Hospitals and Dispensaries By Travelling	49,596	32,430	3 6,091	118,117
Dispensaries	14,678	11,626	24,973	51,277
$egin{array}{cccc} \operatorname{Total} & \ldots & & & & & & & & & & & & & & & & & $	64,274	44,056	61,064	169,394
PERAK.				
At Hospitals and Dispensaries By Travelling Dispensaries:	175,087	70,290	80,415	325,792
1. Road	46,428 4,313	24,996 $1,771$	$\begin{bmatrix} 33,907 \\ 2,057 \end{bmatrix}$	105,331 8,141
Total	225,828	97,057	116,379	439,264

SUMMARY OF OUT-PATIENTS TREATED IN EACH STATE AND SETTLEMENT FOR 1951—(cont.)

Hospitals and Dispensaries.	Adult Males.	Adult Females.	Children under 10 years.	Total.
SELANGOR.				
At Hospitals and Dispensaries	131,501	68,378	77,003	276,882
By Travelling	21,855	16,783	19,183	57,821
Dispensaries				
Total	153,356	85,161	96,186	334,703
NEGRI SEMBILAN.				
NEGRI SEMBILAN.				
At Hospitals and Dispensaries	61,270	26,603	38,753	126,626
By Travelling				
Dispensaries	23,337	19,055	20,390	62,782
Total	84,607	45,658	59,143	189,408
MALACCA.				
At Hospitals and Dispensaries	28,829	13,874	14,647	57,3 50
By Travelling Dispensaries	5,362	4,119	7,896	17,377
	,			
Total	34,191	17,993	22,543	74,727
JOHORE.				
At Hospitals and Dispensaries	00.000	19,921	28,375	115,262
By Travelling				
Dispensaries: 1. Road	22,833	10,433	30,450	63,716
2. River	1 170	366	837	2,382
Total	90,978	30,720	59,662	181,360
		V.	I	

Table 5—(cont.)

SUMMARY OF OUT-PATIENTS TREATED IN EACH STATE AND SETTLEMENT FOR 1951—(cont.)

Hospitals and Dispensaries.	Adult Males.	Adult Females.	Children under 10 years.	Total.
KELANTAN.				
At Hospitals and Dispensaries By Travelling	39,785	18,228	25,370	83,383
Dispensaries: 1. Road 2. River	14,518 2,138	8,783 1,009	27,970 1,093	51,271 $4,240$
Total	56,441	28,020	54,433	138,894
TRENGGANU.				
At Hospitals and Dispensaries By Travelling Dispensaries:	32,013	14,749	22,308	69,070
1. Road	24,278 9,145	19,293 6,856	26,087 9,053	$69,658 \\ 25,054$
Total	65,436	40,898	57,448	163,782
TO A LETA NY (1				
PAHANG.				
At Hospitals and Dispensaries By Travelling	56,187	29,595	43,615	129,397
Dispensaries: 1. Road	24,556	15,197	23,848	63,601
2. River	4,581	2,914	4,157	11,652
Total	85,324	47,706	71,620	204,650
FEDERATION OF MALAYA.				
At Hospitals and Dispensaries By Travelling	730,901	354,794	435,639	1,521,334
Dispensaries: 1. Road	221,029 21,356	137,607 12,916	228,245 17,197	586,881 51,469
Total	973,286	505,317	681,081	2,159,684

TABLE 6.

OUT-PATIENTS.

RETURN OF DISEASES FOR THE YEAR 1951

Inter- mediate	Detailed		All Nati	New (ionalities (in	Cases. cluding Euro	peans).
list Number.	list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
		I.—INFECTIVE AND PARASITIC DISEASES.				
1 1 2	001-008 010	Tuberculosis of respiratory system Tuberculosis of meninges and central nervous	3,159	986	62	4,207
3	011	Tuberculosis of intestines, peritoneum and				
\(\frac{4}{5}\) (a)	012-013 014	mesenteric glands				
(b) (c) (d)	015 016	Tuberculosis of lymphatic system				
(e)	018	Tuberculosis of adrenal glands	89	66	40	195
$\begin{pmatrix} 1 & 6 \\ A & 7 \end{pmatrix}$ (a)	$019 \\ 020 \\ 021.0-021.1$	Disseminated tuberculosis	659	67	115	115 7 2 8
$\begin{pmatrix} a \\ (b) \\ (c) \end{pmatrix}$	021.0 021.2 021.3	Secondary syphilis Early syphilis, relapse following treatment	1,654	790	13	2,457
$A \otimes \frac{(d)}{d}$	$\begin{array}{c} 021.4 \\ 024 \end{array}$	Early syphilis (unspecified stage)				
1 9 1 10 (a)	025 022	General paralysis of insanc				
(b) (c) (d)	$\begin{array}{c} 023 \\ 026 \\ 027 \end{array}$	Other cardiovascular syphilis	273	197	3	473
(e) (f)	$028 \\ 029$	Latent syphilis	310	62	7	379
$\begin{array}{ccc} A & 11 & (a) \\ & (b) \end{array}$	$\begin{array}{c} 030 \\ 031 \end{array}$	Acute or unspecified gonorrhoea Chronic gonococcal infection of genito-urinary			-	
(c)	032	system	2,352	30 7 6	2	2,661
(d) (e)	$\begin{array}{c} 033 \\ 034 \text{-} 035 \\ 040 \end{array}$	Gonococcal infection of eye	$\begin{bmatrix} 337 \\ 331 \\ 4 \end{bmatrix}$	55 1	14	357 390 5
A 13 (a) (b)	$\begin{array}{c} 041 \\ 042 \end{array}$	Paratyphoid fever A, B or C	-		• •	
A 14 A 15	043 044	Cholera				
A 16 (a) (b) (c)	$\begin{array}{c} 045 \\ 046 \\ 047-048 \end{array}$	Bacillary dysentery	237 558	$\begin{bmatrix} 97 \\ 186 \end{bmatrix}$	81 126	415 870
A 17	050	Other protozoal and unspecified forms of dysentery	1,578	930	684	3,192
A 18 A 19	$\begin{array}{c} 050 \\ 051 \\ 052 \end{array}$	Streptococcal sore throat	11	1	11	23
A 20 A 21	053 055	Septicaemia and pyaemia Diphtheria	6 17	$\begin{bmatrix} 3 \\ 26 \end{bmatrix}$	142	12 185
A 22 A 23 A 24	056 057 058	Whooping Cough	65	53	3,384	3,502
$\stackrel{\text{A}}{\text{A}} \stackrel{\text{A}}{25} = \stackrel{\text{A}}{\text{A}} \stackrel{\text{A}}{26} = \stackrel{\text{A}}{\text{A}} $	$060 \\ 061$	Leprosy	151	46	8	205
A 27 (b)	062	Tetanus, other forms	1	1	3	5
A 28 A 29 A 30	080 082	Acute Poliomyelitis	• •	• •	2	2
A 31	$\left\{ \begin{array}{c} 081 \\ 083 \\ 084 \end{array} \right\}$	Late effects of acute poliomyelitis and acute infectious encephalitis				
A 32 A 33	085 091	Measles	308	40	371	719
A 34 A 35	$\begin{array}{c} 092 \\ 094 \end{array}$	Infectious hepatitis Rabies		1	1	2
A 36 (a) (b) (c)	100 101 104	Louse-borne epidemic typhus Flea-borne endemic typhus (murine) Tick borne epidemic typhus				
$\begin{pmatrix} (c) \\ (d) \\ (e) \end{pmatrix}$	104 105 102-103	Tick-borne epidemic typhus	1	• •		1
A 37 (a)	106-108	Vivax malaria (benign tertian)	2,421	909	984	4,314
(b) (c) (d)	111	Malariae malaria (quartan)	3,294 6	1,062 1	1,219 7	5, 5 75 14
		Carried forward	17,875	5,904	7,313	31,092

OUT-PATIENTS—(cont.)

Inte		Detailed		All Natio	New Conalities (inc	ascs.	peans).
nieda list Numb		list Number.	Cause Groups—(Diseases).	Adult Malcs.	Adult, Females.	Children under 10 years.	Total.
de promotion de la constantina			Brought forward	17,875	5,904	7,313	31,092
			I.—INFECTIVE AND PARASITIC DISEASES—(cont.)				
	(a)	115	Blackwater fever				
	(e) (f)	$\begin{bmatrix} 113 \\ 116-117 \end{bmatrix}$	Other and unspecified forms of malaria	46,898	19,371	25,350	91.619
A 38	(a)	$\begin{array}{c} 110 - 117 \\ 123.0 \\ 123.1 \end{array}$	Schistosomiasis vesical (S. haematobium) Schistosomiasis intestinal (S. Mansoni)				
	(b) (c) (d)	$\begin{array}{c} 123.1 \\ 123.2 \\ 123.3 \end{array}$	Schistosomiasis Pulmonary (S. japonicum)				
A 39 A 40		$\frac{125.5}{125}$	Hydatid disease				
A 40	(a) (b) (c) (d)		Loiasis	59	36	15	110
A 41	(d)		Other filariasis	3,945	2,428	3,390	9,763
A 42	(a)	126	Tape worm (infestation) and other cestode infestation	0,010	2,120	0,000	0,700
	(b)	$130.0\\130.3$	Ascariasis	15,895	11,110	49,895	76,900
	(b) (c) (d) (e)	$ \begin{array}{c} 124 \\ 128 \end{array} $	Other trematode infestation				
A 43	(f)	130.1-130.2 036	Other diseases due to helminths	534	543	1,527	2,604
	(a) (b) (c) (d) (e) (f) (g) (h)	$\begin{array}{c} 037 \\ 038 \end{array}$	Lymphogranuloma venereum Granuloma inguinale, venereal				
	(d) (e)	$039 \\ 049$	Other and unspecified venereal diseases Food poisoning infection and intoxication	67	14	6	87
	(f)	$\begin{array}{c} 059 \\ 063 \end{array}$	Tularaemia				
	(h)	064	(a) Glanders			t of the second	
	(i)	070	(c) Other bacterial diseases				
	(j) (k)	$\begin{array}{c} 071 \\ 072 \end{array}$	Relapsing fever				
	(l)	073	diseasc)	12,798	9,023	9,178	. 30,999
	$\begin{pmatrix} m \\ n \end{pmatrix}$	086 087	Rubella	252 252	·· <u>5</u> 3	$\begin{bmatrix} 7 \\ 233 \end{bmatrix}$	538 538
	(o) (p)	088 089	Herpes Zoster	325	54	43	422
	(p) (q) (r) (s) (t)	090 093	Dengue	8	3	3	14
	(s)	$\begin{array}{c} 095 \\ 096.7 \\ 120 \end{array}$	Trachoma				
	(u) (v)	121	(a) Trypanosomiasis gambiensis				
	(w)	131	(c) Other and unspecified trypanosomiasis	8,842	2.524	2,644	14,010
	$\begin{pmatrix} x \\ y \end{pmatrix}$		Scabies	0,042	2.024	<i>i</i> .,∪±±	14,010
	(9)	096.1-096.6 096.8,096.9	All other diseases classified as infective and				
		$\begin{bmatrix} 122 \\ 132-134 \end{bmatrix}$	parasitic	1,888	1,435	3,902	7,225
		136-138	II.—NEOPLASMS.				
A 44		140-148	Malignant neoplasm of buccal cavity and				
A 45		150	pharynx Malignant neoplasm of oesophagus	54	27	6	87
A 46 A 47	(a)	$151 \\ 152$	Malignant neoplasm of stomach		4		
	(b)		including duodenum Malignant neoplasm of large intestine,				
A 48		154	except rectum Malignant neoplasm of rectum				
A 49 A 50		161 162-163	Malignant neoplasm of larynx Malignant neoplasm of trachea, and of				
A 51		170	bronchus and lung not specified as secondary Malignant neoplasm of breast Malignant neoplasm of service uteri				
A 52		171	Malignant neoplasm of cervix uteri	100 444	52,525	102 510	905 191
***************************************			Carried forward	109,444	32,323	103,512	265,481

OUT-PATIENTS—(cont.)

Number N	Inte media		Detailed		All Natio	New Canalities (inc.	ases. luding Europ	eans).
A 53	lis	t	list	Cause Groups—(Diseases).			under	Total.
A 54				Brought forward	109.444	52,525	103,512	265,481
A 55	A 53		172-174	Malignant neoplasm of other and unspecified				
155-156	A 55		190-191	Malignant neoplasm of prostate				
(c) 178-179 (f) 178-179 (g) 180-181 (h) 160 (h) 160 (h) 160 (h) 160 (h) 192-195 (h) 192-195 (h) 192-195 (h) 193-199 (h) 193-19	A 57	(b) (c)	157 158	Malignant neoplasm of liver				
Mailgnant neoplasm of other and unspecified male genital organs Mailgnant neoplasm of kidney, bladder and other urbary organs. Mailgnant neoplasm of kidney, bladder and other urbary organs. Mailgnant neoplasm of all other and unspecified sites Mailgnant neoplasm of all other and unspecified sites Leukaemia and Aleukaemia 1 2 11 14 14 15 16 16 16 17 17 17 18 18 18 18 18		(e)	175-176	organs Malignant neoplasm of other and unspecified	50	30	1	81
Mailgnant neoplasm of kidney, bladder and other uninary organs.		(f)	178-179	Malignant neoplasm of other and unspecified				
(b) 100 104 105 103 104 104 105 103 104 105 103 105 103 105 103 105 103 105 103 105 103 105 10		(g)	180-181	Malignant neoplasm of kidney, bladder and				
A 59 (d) 200 (b) (c) 201 (c) 202-203 (b) (c) 202-203 (c) 202-203 (c) 202-203 (d) 210-211 (d) 217 (d) 217 (e) 230-223 (d) 231-232 (e) 230-230 (e) 231-232 (e) 231-2		(h)	$\begin{vmatrix} 164-165 \\ 192-195 \end{vmatrix}$	Malignant neoplasm of all other and	103	111		214
A 60	A 58 A 59	(a) (b)	204 200	Lymphosarcoma and reticulosarcoma	1	2	11	14
A 61	V 60			Doletic System				
(d) 212-219 (219-229) (e) 230 (f) 233-235 (g) 233-235 (g) 231-232 (g) 236-239	¥ 00			and digestive system				
Organs		(d)	$\left\{ egin{array}{c} 212\text{-}216 \ 219\text{-}229 \end{array} ight\}$	Benign neoplasm of other male genital organs Benign neoplasm of other and unspecified				
Color				organs				
METABOLIC AND NUTRITIONAL DISEASES AND DISEAS			231-232	Neoplasm of unspecified nature of other	392	273	48	713
A 61				METABOLIC AND NUTRITIONAL DISEASES				
A 62	A 61		950-951	IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS.				
(b) 281	A 62 A 63		252 260	Thyrotoxicosis with or without goitre		· ·		
(a) Spruc (b) Malnutrition (c) Other deficiency states (c) Other deficiency states (c) Other specified and unspecified anaemias (c) 292-293 (d) 240 (d) 254 (e) 270 (e) 272 (f) 271 (g) 272 (f) 273 (f) 274 (f	A 64	(a)	280	Pellagra	18	16	1	35
A 65 (a) 290 (b) 291 (c) 292-293 (d) 240 242-245 (e) 253 (d) 254 (e) 270 (f) 271 (g) 272 (h) 273 (i) 274 (i) ($\begin{pmatrix} c \\ (d) \\ (e) \\ (f) \end{pmatrix}$	282 283-284 285 286.0	Rickets				185
A 65			286.1-286.47	(c) Other deficiency states	7,075	5,025	3,192	15,292
(c) 292-293	A 65	(a) (b)) 290	Pernicious and other hyperchromic anaemias Tron deficiency anaemias (hypochromic)				
(c) 253 Myxoedema and cretinism Other diseases of thyroid gland Disorders of pancreatic internal secretion other than diabetes mellitus Diseases of parathyroid gland Other than diabetes mellitus Other than diabetes mellitu	A 66	(c) (a)) 292-293) 241) 240 \	Other specified and unspecified anaemias Asthma	20,042 9,813			64,434 19,422
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(c) (d)) 253 254	Myxoedema and cretinism Other diseases of thyroid gland				
(i) 274 Diseases of adrenal gland		(f (g (h	271 272 273	other than diabetes mellitus Diseases of parathyroid gland Diseases of pituitary gland Diseases of thymus gland Diseases of thymus gland				
) ((i	274	Diseases of adrenal gland	149,007	99,234	121,456	369,697

OUT-PATIENTS—(cont.)

Inter media		Detailed		All Natio	New Conalities (inc	ases. luding Euro	peans).
list Numb		list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
			Brought forward	149,007	99,234	121,456	369,697
			HII.—ALLERGIC, ENDOCRINE SYSTEM, METABOLIC AND NUTRITIONAL DISEASES		•		
			AND IV.—DISEASES OF THE BLOOD AND				
	(j)	275-277	BLOOD-FORMING ORGANS—(cont.) Other diseases of endoerine glands				
	$\begin{pmatrix} (k) \\ (l) \\ (m) \end{pmatrix}$	$288 \\ 287, 289 \\ 294$	Gout	1,186	1,001	390	2,577
	(j) (k) (l) (m) (n) (o) (p) (q) (r)	$\begin{array}{c} 295 \\ 296 \end{array}$	Haemophilia Purpura and other haemorrhagie eonditions	32	25	1	58
	$\begin{pmatrix} (p) \\ (q) \\ (r) \end{pmatrix}$	$297 \\ 298 \\ 299$	Agranuloeytosis		-		
			organs	119	127	96	342
			V.—MENTAL, PSYCHONEUROTIC AND PERSONALITY DISORDERS.				
A 67	(a) (b) (c)	$ \begin{array}{r} 300 \\ 301 \\ 302 \end{array} $	Schizophrenic disorders (dementia praeeox) Maniac-depressive reaction				
	(d) (e)	$303 \\ 304 \\ 305-309$	Paranoia and paranoid states		The second secon		
A 68	(a) (b)	$\begin{array}{c} 311 \\ 314 \end{array}$	Hysterical reaction	004	10		244
	(a) (b) (c) (d) (e) (f) (a) (b) (c) (d) (e)	322 323 310	Aleoholism Other drug addiction	634	10	• •	644
		$ \begin{array}{c c} 312-313 \\ 315-321 \\ 324 \end{array} $	Other psychoneuroses and disorders of personality				
A 69		326 325	Mental deficiency				
			VI.—DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS.				
A 70	(a) (b) (c)	331 332 330 \	Cerebral haemorrhage				
A 71 A 72		333-334 ∫ 340 345	nervous system Non-meningocoecal meningitis				
A 73 A 74	(a)	$\begin{array}{c} 353 \\ 370 \end{array}$	Epilepsy				
A 75 A 76	(b)	$371-379 \\ 385 \\ 387$	Other inflammatory diseases of eye Cataraet				
A 77	(a) (b) (c)	$ \begin{array}{r} 390 \\ 391 - 393 \\ 394 \end{array} $	Otitis externa	12,460	5,547	12,190	30,197
A 78		$ \begin{array}{c} 380 \text{-} 384 \\ 386, 388 \\ 389 \end{array} \right\} $	All other diseases and conditions of eye	33,256	15,921	17,678	66,855
	(b) (c)	$\begin{array}{c} 342 \\ 343 \end{array}$	Intracranial and intraspinal abseess Encephalitis, myelitis and encephalomyelitis				
	(b) (c) (d) (e) (f) (g) (h)	$\frac{350}{352} \\ \frac{356}{356}$	Paralysis agitans Other cerebral paralysis Motor neurone disease and muscular atrophy				
	(g) (h)	357 366	Other diseases of spinal cord				
	(i)	$\begin{array}{c} 367 \\ 369 \end{array}$	Other diseases of cranial nerves Diseases of peripheral autonomic nervous				
	(k)	$\begin{bmatrix} 341, 344 \\ 351, 354 \end{bmatrix}$	system				
		$ \begin{array}{c} 355 \\ 360-365 \\ 368 \\ \end{array} $	All other diseases of the nervous system and sense organs	35,083	15,635	1,807	52,525
		395-398)	Carried forward	231,777	137,500	153,618	522,895

OUT-PATIENTS—(cont.)

Inte medi		Detailed		All Natio	New C onallties (inc	ascs. luding Europ	eans).
lis Num	t	list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
			Brought forward	231,777	137,500	153,618	522,89
			VII,—DISEASES OF THE CIRCULATORY SYSTEM.				
79	(a)	400	Rheumatic fever without mention of heart involvement				
	(b) (c)	401 402	Rheumatic fever with heart involvement				
80	(a) (b)	410-413 414	Diseases of valves specified as rheumatic				
	(c)	415	Other endocarditis specified as rheumatic Other myocarditis specified as rheumatic				
81	$\begin{pmatrix} (d) \\ (a) \end{pmatrix}$	$\begin{array}{c} 416 \\ 420 \end{array}$	Other heart disease specified as rheumatic Arteriosclerotic heart disease, including				
	(b)	421	coronary disease				
	(c)	422	rheumatic Other myocardial degeneration				
82	$\begin{pmatrix} (a) \\ (b) \end{pmatrix}$	430 431	Acute and subacute endocarditis			į,	
	$\begin{pmatrix} (c) \\ (d) \end{pmatrix}$	$\begin{array}{c} 432 \\ 433 \end{array}$	Acute pericarditis				
83	(e)	434 440-443	Other and unspecified diseases of heart	1,036	675	57	1,76
84 85	(a)	444-447 450	Hypertension with heart disease Hypertension without mention of heart General arteriosclerosis	579	287	14	88
. 00	(a) (b)	451	Aortic ancurysm specified as non-syphilitic				
	$\begin{pmatrix} (c) \\ (d) \end{pmatrix}$	452	other aneurysm. except of heart and aorta				
	(a) (e)	453 454	Peripheral vascular disease				
	$\begin{pmatrix} (f) \\ (g) \end{pmatrix}$	$\begin{array}{c} 455 \\ 456 \end{array}$	Gangrene of unspecified cause Other diseases of arterics				
86	$\begin{pmatrix} (a) \\ (b) \end{pmatrix}$	$460,462 \\ 461$	Varicose veins				
	(c) (d) (e)	$\begin{array}{r} 463 \text{-} 464 \\ 465 \end{array}$	Phlebitis and thrombophlebitis Pulmonary embolism and infarction				
	(e) (f)	$\begin{array}{c} 466 \\ 467 \end{array}$	Other venous embolism and thrombosis Other diseases of circulatory system	1,755	619	110	2,48
	(g)	468	(a) Adenitis (b) Lymphadenitis	10,403 433	2, 7 15 134	4,407 148	1 7 ,52
			(c) Other diseases of lymph nodes and lymph channels	577	185	236	99
			lymph chemicis		•		
			VIII.—DISEASES OF THE RESPIRA- TORY SYSTEM.				
87	(a)	170					
. 01	(a) (b)	$\frac{470}{471}$	Acute nasopharyngitis (common cold) Acute sinusitis				
	$\begin{pmatrix} (c) \\ (d) \end{pmatrix}$	472 473	Acute pharyngitis				
	(e) (f)	$\begin{array}{c} 474 \\ 475 \end{array}$	Acute laryngitis and tracheitis Other acute upper respiratory infections	12,722	5,729	6,205	24,65
88	$\begin{pmatrix} (a) \\ (b) \end{pmatrix}$	480 481	Influenza with pneumonia Influenza with other respiratory manifesta-				
	(c)	482	tions, and influenza unqualified Influenza with digestive manifestations, but	54,067	17,971	22,995	95,03
	(d)	483	without respiratory symptoms Influenza with nervous manifestations, but				
89		490	without digestive or respiratory symptoms Lobar pneumonia				
1 90 1 91		491 492-493	Broncho-pneumonia				
92	į	500	pneumonia	512	254	1,783	2,549
93	(a) (b)	$500 \\ 501 \\ 502$	Bronchitis unqualified	80,350	39,772	92,724	212,999
94		510	Hypertrophy of tonsils and adenoids				
1 96 1 96	(a) (b);	518 521	Empyema	100	60	1	251
r 90	1	519	Pleurisy	190	60	1	
			Carried forward	394,554	205,901	282,298	882,75

OUT-PATIENTS—(cont.)

Inter		Detailed		All Nati	New Conalities (in	ases. eluding Euro	opeans).
list Numb		list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
			Brought forward VIII.—DISEASES OF THE RESPIRATORY SYSTEM—(cont.)	394,554	205,901	282,298	882,753
A 97	(a) (b) (c) (d) (e) (f)	517 520 522 525 523 526 511-516	Other diseases of upper respiratory tract Spontaneous pneumothorax Pulmonary congestion and hypostasis Other chronic interstitial pneumonia. Pneumoconiosis Bronehiectasis				
	(g)	$ \begin{array}{c} 511-516 \\ 524 \\ 527 \end{array} $	All other respiratory diseases	4,897	3,441	6,432	14,770
		A committee of the comm	IX.—DISEASES OF THE DIGESTIVE SYSTEM.				
A 98	(a) (b)	530 531-535	Dental earies				
A 99 A 100		540 541	structures Uleer of stomach	19,947	9,681	13,259	42,887
A 101 A 102 A 103	(a)	543 550-553 560	Gastritis and doudenitis	23,990 104	14,460 59	7,453	45,903 172
	(b) (c)	561 570	of obstruction	340	18	34	392
A 104	(a)	571.0	(c) Other intestinal obstruction Gastro-enteritis and eolitis between 4 weeks and 2 years		• •	12,518	12,518
A 105 A 106 A 107	(b) (c) (a) (b) (a) (b) (a) (b)	571.1 572 581.0 581.1 584 585 536 538	Over	13,236	6,068	8,589	27,893
	(c) (d) (e) (f)	539 544 545 573	 (a) Functional disorders of oesophagus (b) Stricture or obstruction of oesophagus Disorders of function of stomach Other diseases of stomach and duodenum (a) Constipation 	31.823	12,722	10,602	55,147
	(g) (h) (i) (j) (k)	574 575 576 578 580	(b) Other functional disorders of intestines Anal fissure and fistula Abscess of anal and rectal regions Peritonitis		1,484	921	5,148
	(l) (m) (n) (o)	586 587	(c) Hepatitis	8,366	5,277	3,143	16,786
			X.—DISEASES OF THE GENITO- URINARY SYSTEM.				
A 108 A 109	(a) (b) (c) (d)	594	Acute nephritis				
A 110 A 111	(a)	600 602	Infections of kidney	500,000	259,111	345,258	1,104,369

OUT-PATIENTS—(cont.)

Inter- mediate	Detailed		All Natio	New Conalities (inc	ases. luding Euro	peans).
list Number.	list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
		Brought forward	500,000	259,111	345,258	1,104,369
		X.—DISEASES OF THE GENITO- URINARY SYSTEM—(cont.)				
(b	610	Calculi of other parts of urinary system Hyperplasia of prostate				
113 114 (a (b	620-621 603 605	Diseases of breast Other diseases of kidney and ureter Cystitis				
(c) (d)) 606 608	Other diseases of bladder				
(c) 609	Other diseases of urethra Other diseases of prostate				
(f (g (h (i (j (k) 614 617	Hydrocele Orchitis and epididymitis Other diseases of male genital organs				
() (k	622 625	Acute salpingitis and oophoritis Other diseases of ovary and fallopian tube				
(l) (m		Diseases of parametrium and pelviperitoneum (female)				
(n (d	633 634	Other diseases of uterus				
(n (q		Other diseases of female genital organs				
	$ \left \begin{array}{c} 615-616 \\ 623-624 \\ 631-632 \\ 635-636 \end{array} \right $	All other diseases of the genito-urinary system	6,328	7,2 31	1,029	14,588
		XI.—DELIVERIES AND COMPLICA- TIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM.				
. 115 — (d (l	$\begin{pmatrix} t \\ 0 \end{pmatrix} = \begin{pmatrix} 640 \\ 641 \end{pmatrix}$	Pyelitis and pyelonephritis of pregnancy Other infections of genito-urinary tract during				
	681 682	pregnancy Sepsis of childbirth and the puerperium Puerperal phlebitis and thrombosis				
	684 642	Puerperal pulmonary embolism				5
		(b) Eclampsia of pregnancy				
(652	(e) Other toxaemias of pregnancy Abortion with toxaemia, without mention of				
(((1) 685 686	sepsis				1
((a) 643 (b) 644 (c) 670	Placenta praevia				
	(c) 670 (d) 671 (e) 672	Delivery complicated by placenta praevia or antepartum haemorrhage Delivery complicated by retained placenta				
		Delivery complicated by other postpartum haemorrhage				
1118	650	Abortion without mention of sepsis or toxaemia				
1 120 ((a) 645 (b) 646 (c) 683	Ectopic pregnancy	,			
((d) 688.1 (e) 689 (f) 647-649	puerperium Puerperal psychoses				
	$\begin{bmatrix} 673\text{-}680 \\ 687 \\ 688.0 \\ 688.2\text{-}688.3 \end{bmatrix}$	Other complications of pregnancy, childbirth and the puerperium		15,033		15,035
($y) \begin{vmatrix} 688.2-688.3 \\ 660 \end{vmatrix}$	Delivery without complications			0.10.205	1 100 000
	1	Carried forward	506,328	281,375	346,287	1,133,990

OUT-PATIENTS—(cont.)

Return of Diseases for the Year 1951—(cont.)

Inte		Detailed		All Nati	New (ionalities (in	Cases. cluding Eur	ropeans).
list Numl	t	list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
			Brought forward	506,328	281,375	346,287	1,133,990
			XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE				
			XIII.—DISEASES OF THE BONES AND ORGANS OF MOVEMENT.		no management de la companya de la c		
A 121	(a) (b) (c)	690 691-693 694-698	Boil and carbuncle Cellulitis and abscess Other infections of skin and subcutaneous tissue	114,906	38,303	56,88 \$	210,097
A 122	(a) (b) (c) (d)	720 721 722 $723-725$	Acute arthritis due to pyogenic organisms Acute nonpyogenic arthritis			3,000	
A 123 A 124 A 125	(a) (b) (a)	726 727 730 737	Muscular rheumatism	14,831	5,339	281	20,454
A 126	(b) (a) (b)	745-749 715 $700-714$ 716	Other acquired musculoskeletal deformities Chronic ulcer of skin (including tropical ulcer) All other diseases of skin		4 400	400	10.04
	(c)	731-736 } 738-744 }	All other diseases of musculoskeletal system	11.534	4,688	423	16,645
A 107		Pr.	XIV.—CONGENITAL MALFORMATIONS.				
A 127 A 128		751 754	Spine bifida and meningocele				
A 129	(a) (b) (c)	750 752 753	Monstrosity Congenital hydrocephalus Other congenital malformations of nervous system and sense organs				
	(d) (e)	755 756	Cleft palate and harelip (a) Congenital hypertrophic pyloric stenosis (b) Imperforate anus (c) Other congenital malformations of				
	(f)	757	digestive system Congenital malformations of genito-urinary system			adjulier auto-	
	(g) (h)	758 759	Congenital malformations of bone and joint. Other and unspecified congenital malformations, not elsewhere classified	15	21	e e e e e e e e e e e e e e e e e e e	36
			XV.—CERTAIN DISEASES OF EARLY INFANCY.			The second secon	
A 130	(a) (b)	760 761	Intracranial and spinal injury at birth Other birth injury				
A 131 A 132	(a) (b) (c) (d)	762 764 765 763 766	Postnatal asphyxia and atelectasis Diarrhoea of newborn Ophthalmia neonatorum Pneumonia of newborn Pemphigus neonatorum	The second secon			
A 133 A 134	(e) (f)	$ \begin{array}{c} 767 \\ 768 \\ 770 \\ 769 \\ 771-772 \end{array} $	Umbilical sepsis Other sepsis of newborn Haemolytic disease of newborn All other defined diseases of early infancy				
A 135	(a) (b) (c)	773 774 775-776	Congenital debility Premature birth Other ill-defined diseases peculiar to carly infancy and immaturity unqualified			376	376
			Carried forward	647,617	329,726	404,255	1,381,598

OUT-PATIENTS—(cont.)

Inter- mediate	Detailed		All Nati	New (onalities (in	Cases. cluding Euro	opeans).
list Number.	list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
		Brought forward	647,617	329,726	404,255	1,381,598
		XVI.—SYMPTOMS, SENILITY AND ILL- DEFINED CONDITIONS.				
A 136 A 137 (a) (b) (c)	794 780 788.8 793	Senility without mention of psychoses Infantile convulsions Pyrexia of unknown origin Observation, without need for further medical care	2,846	2,226	348	5,072 348
(d)	$ \begin{array}{c} 781-787 \\ 789-792 \\ 795 \\ 788.1-788.7 \\ 788.9 \end{array} $	(a) Malingering	243	414		657
	.00.10	(b) Sudden death (cause unknown) (c) Found dead (cause unknown) (d) Other ill-defined and unknown causes of morbidity and mortality	13,391	5,297	6,928	25,616
		XVII.—ACCIDENTS, POISONINGS AND VIOLENCE.				
		"E" CODE: ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSES).				
	E 810-E 835 E 800-E 802 E 850-E 858	Motor vehicle accidents Railway accidents Water transport accidents	$\begin{bmatrix} 2,115 \\ 152 \\ 1 \end{bmatrix}$	487	433 5	3,035 160
(c)	E 860-E 866 E 840-E 845 E 870	Aircraft accidents Other transport accidents Accidental poisoning by morphia and other	1,543	631	974	3,148
(b)		opium derivatives				
• (c)	E 878	soporific drugs Accidental poisoning by other and unspecified drugs				
(d) (e)		Accidental poisoning by corrosive aromatics, acids and caustic alkalies Accidental poisoning by mercury and its				
(f)		compounds				
(g)		Accidental poisoning by arsenic and antimony				
(h)		and their compounds Accidental poisoning by other and unspecified solid or liquid substances				
	E 890-E 895	solid or liquid substances Accidental poisoning by gases and vapours	2		1	3
(3)	E 871-E873 \ E 875-E877 \ E 879-E882 \	Other accidental poisoning	• •	6	9	15
AE 141 AE 142 AE 143	E 887 E 900-E 904 E 912 E 916	Accidental falls	37,664 243	8,617 29	13,545 29	59,826 301
AE 144	E 917-E 918	combustible material Accident caused by hot substance, corrosive liquid, steam and radiation				
AE 145 AE 146 AE 147 (a)		Accident caused by firearm Accidental drowning and submersion Foreign body entering eye and adnexa Foreign body entering other orifice	$\frac{226}{\cdot \cdot}$	29	20	275 3
(c)	E 927	Accidents caused by bites and stings of venomous animals and insects	1,828	633	781	3,242
AE 148 (a)		Other accidents caused by animals Accidents caused by cutting or piereing instruments	$1,616 \\ 14,390$	722 3,641	1,030 4,691	3,368 22,722
(b) (c) (d) (e) (f) (g) (h)	E 914 E 925 E 926 E 931	Accidents caused by electric current Accidental mechanical suffocation Lack of care of infants under 1 year of age Excessive heat	14,590 6	0,041		6
(f (g (h	E 932 E 933 E 934	Excessive fleat	3 ·		• •	3
(16	12.001	Carried forward	723,886	352,461	433,052	1,509,399

OUT-PATIENTS—(cont.)

Return of Diseases for the Year 1951—(cont.)

Inter- mediate	Detailed		All Natio		New Cases. All Nationalities (including Europeans).			
list Number.	list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.		
		Brought forward	723,886	352,461	433,052	1,509,399		
		XVII.—ACCIDENTS, POISONINGS AND VIOLENCE—(cont.)						
		"E" CODE: ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSES)—(cont.)						
(i) (j)	E 935 E 936	Lightning	283 462	66 140	63	349 665		
(m)	E 941-E 942	(d) Other and unspecified accidents Generalized vaccinia following vaccination Other complications of smallpox vaccination Anaesthetic accidents Accidents due to medical or surgical	$\begin{smallmatrix} 8\\20\end{smallmatrix}$	1 28	71 472	80 520		
(0)	E 955-E959 f E 970	intervention Suicide and self-inflicted injury by analgesic						
(p) (q)		Suicide and self-inflicted injury by other solid and liquid substances Suicide and self-inflicted injury by gases in	3	3	• •	6		
(r) (s)		domestic use Suicide and self-inflicted injury by other gases						
(s) (t)		Suicide and self-inflicted injury by hanging or strangulation						
(u)		(drowning) Suicide and self-inflicted injury by firearms						
(v)	E 977	and explosives Suicide and self-inflicted injury by cutting or piercing instruments						
(w)		Suicide and self-inflicted injury by jumping from high place				•		
(x)	E 979 E 910-E911	Suicide and self-inflicted injury by other and unspecified means	5	2		7		
, (97	E 915 E 921-E922 E 924-E930 E 943-E946	All other accidental causes	714	247	307	1,268		
AE 149 (a) (b) (c) (d) (e) (f) AE 150		Non-accidental poisoning by another person Assault by firearms and explosive Assault by cutting or piercing instruments	$140 \\ 451 \\ 2,698$	7 137 869	12 100	149 600 3,667		
		"N" CODE: ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONING, AND VIOLENCE (NATURE OF INJURY).						
AN 138 AN 139 AN 140 AN 141 AN 142	N 800-N 804 N 805-N 809 N 810-N 829 N 830-N 839 N 840-N 848	Fracture of skull Fracture of spine and trunk Fracture of limbs Dislocation without fracture Sprains and strains of joints and adjacent						
AN 143 AN 144 AN 145 AN 146	N 850-N 856 N 860-N 869 N 870-N 908 N 910-N 929	muscles Head injury excluding fracture Internal injury of chest, abdomen and pelvis Laceration and open wounds Superficial injury, contusion and crushing						
AN 147 AN 148 AN 149 AN 150	N 930-N 936 N 940-N 949 N 960-N 979 N950-N959 N980-N999	Effects of foreign body entering through orifice Burns Effects of poisons All other and unspecified effects of external	1,683 548	747 86	1,455 105	3,885 739		
	1 200-11 223]	causes	730,901					

OUT-PATIENTS—(cont.)

Nationalities.					New Cases. All Nationalities (including Europeans).				
					Adult Males.	Adult Females.	Children under 10 years.	Total. (A)	
Europeans Eurasians Chinese Indians Malays Javanese Japanese Others			TOTAL		5,584 5,177 255,878 170,179 281,307 9,186 90 3,500 730,901	2,506 3,481 146,266 75,437 122,244 2,919 28 1,913 354,794	1,389 2,830 192,781 86,157 146,216 4,405 1,861	9,479 11,488 594,925 331,773 549,767 16,510 118 7,274	

TABLE 7.

TRAVELLING DISPENSARIES OUT-PATIENTS.

Inter- mediate list Number.		Detailed		New Cases. All Nationalities (including Europeans).			
		list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
A 1 A 2		001-008 010	I.—INFECTIVE AND PARASITIC DISEASES. Tuberculosis of respiratory system	96	45	6	147
A 3		011	Tuberculosis of intestines, peritoneum and mesenteric glands				
A 4 A 5	(a)	012-013 014	Tuberculosis of bones and joints Tuberculosis of skin and subcutaneous cellular tissue				
A 6 A 7	(b) (c) (d) (e) (f) (a) (b) (c) (d)	$\begin{array}{c} 015 \\ 016 \\ 017 \\ 018 \\ 019 \\ 020 \\ 021.0 \hbox{-} 021.1 \\ 021.2 \\ 021.3 \\ 021.4 \\ 024 \\ \end{array}$	Tuberculosis of lymphatic system Tuberculosis of genito-urinary system Tuberculosis of adrenal glands Tuberculosis of other organs Disseminated tuberculosis Congenital syphilis Primary syphilis Secondary syphilis Early syphilis, relapse following treatment Early syphilis (unspecified stage) Tabes dorsalis	29	2 8	2 1 6	4 1 48 17
A 9 A 10	(a) (b)	$025 \\ 022 \\ 023$	General paralysis of insane				
	(c) (d) (e)	$026 \\ 027 \\ 028$	Other syphilis of central nervous system Tertiary syphilis Letent symbilis	21	12	• •	33
A 11	$\begin{pmatrix} f \\ a \end{pmatrix}$	$\begin{array}{c} 029 \\ 030 \end{array}$	Syphilis unqualified	29	5	• •	34
	(b) (c)	031	Chronic gonococcal infection of genito-urinary system	167	31	3	201
A 12	(d) (e)	$033 \\ 034-035 \\ 040$	Gonococcal infection of eye	33	13	4	50
A 13 A 14	(a) (b)	$\begin{array}{c} 042 \\ 043 \end{array}$	Paratyphoid fever A, B or C				
A 15 A 16	(a) (b)	044 045 046	Brucellosis (undulant fever)	77 2	25 1	62	164
A 17	(c)	047-048	Other protozoal and unspecified forms of dysentery	702	410	569	1,681
A 18 A 19 A 20 A 21		051 052 053 055	Streptococcal sore throat Erysipelas Septicaemia and pyaemia Diphthoria				
A 22 A 23		056 057 058	Whooping Cough	7	5	329	341
A 24 A 25 A 26	(a) (b)	060	Plague	4	• •	• •	4
A 27 A 28 A 29 A 30	(0)	$\left\{\begin{array}{c} 062 \\ 080 \\ 082 \\ 081 \\ 083 \end{array}\right\}$	Anthrax			1	1
A 31 A 32 A 33 A 34 A 35		084 085 091 092 094	infectious encephalitis Smallpox Measles Yellow fever Infectious hepatitis Rabies	88	96	211	395
A 36	(a) (b) (c) (d) (e)	100 101 104 105	Louse-borne epidemic typhus Flea-borne endemic typhus (murine) Tick-borne epidemic typhus Mite-borne typhus				
A 37	(a)	$\left.\begin{array}{c} 102\text{-}103\\ 106\text{-}108\\ 110\\ \end{array}\right\}$	Vivax malaria (benign tertian)	145	55	93	293
	(b) (c)	111 112	Malariae malaria (quartan)	$\begin{array}{c} 2\\228\\ \hline \end{array}$	106	144	478
			Carried forward	1,641	821	1,433	3,895

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

Inte		Detailed		All Natio	New (onalities (inc	Cases. luding Europ	peans).
lis Num	t	list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
			Brought forward :	1,641	821	1,433	3,895
			I.—INFECTIVE AND PARASITIC DISEASES—(cont.)				
	(d) (e)	114 115	Mixed malaria infections				
	(f)	$113 \\ 116-117$	Other and unspecified forms of malaria	35,661	20,475	23,397	79,533
A 38	(a) (b)	$123.0 \\ 123.1 \\ 122.2$	Schistosomiasis vesical (S. haematobium) Schistosomiasis intestinal (S. Mansoni)				
A 39	$\begin{pmatrix} (c) \\ (d) \end{pmatrix}$	$123.2 \\ 123.3 \\ 125$	Schistosomiasis Pulmonary (S. japonicum) Other and unspecified Schistosomiasis				
A 40	(a) (b)	127	Onchocerciasis				
	(a) (b) (c) (d)		Filariasis (bancrofti)	39	13	15	67
A 41 A 42	(a)	$\begin{array}{c} 129 \\ 126 \end{array}$	Ankylostomiasis Tape worm (infestation) and other cestode	1,542	1,064	1,204	3,810
	(b)	$130.0 \\ 130.3$	infestation	6,316	4,516	28,622	39,454
	(c) (d) (e)	$\begin{array}{c} 130.3 \\ 124 \\ 128 \end{array}$	Other trematode infestation				
A 43	(f)	130.1-130.2 036	Other diseases due to helminths	924	615	2,677	4,216
	(b) (c)	$\begin{array}{c} 037 \\ 038 \end{array}$	Lymphogranuloma venereum				
	$\begin{array}{c} (d) \\ (e) \\ (f) \end{array}$	$039 \\ 049 \\ 059$	Other and unspecified venereal diseases Food poisoning infection and intoxication Tularaemia	1	1		.2
	(g) (h)	$\begin{array}{c} 059 \\ 063 \\ 064 \end{array}$	Gas gangrene				
			(b) Melioidosis			1	
	(i) (j)	$\begin{array}{c} 070 \\ 071 \\ \end{array}$	Vincent's infection				
	$\begin{pmatrix} (k) \\ (l) \end{pmatrix}$	072 073	Leptospirosis icterohaemorrhagica (Wcil's disease)	7,680	5,002	10,673	23,355
	$\begin{pmatrix} n \\ n \end{pmatrix}$	086 087	Rubella	13	9	10,073	128
	(o)	088 089	Herpes Zoster	$\tilde{20}$	9	14	43
	(q) (r)	$090 \\ 093$	Dengue				
	(p) (q) (r) (s) (t) (u)	$095 \\ 096.7 \\ 120$	Trachoma				
	(v)	121	(a) Trypanosomiasis gambiensis			ŀ	
	(w)	131	(c) Other and unspecified trypanosomiasis Dermatophytosis	\ 4,789	3,102	4,659	12,550
	$\begin{pmatrix} (x) \\ (y) \end{pmatrix}$	135	Scabies	5			
		$\left.\begin{array}{c} 096.1\text{-}096.6 \\ 096.8,096.9 \\ 122 \end{array}\right\}$	All other diseases classified as infective and parasitic	1,483	715	5,459	7,657
		$\begin{bmatrix} 132 - 134 \\ 136 - 138 \end{bmatrix}$	parasitio	1,100	, 10	9,100	,,,,,,
			II.—NEOPLASMS.			1	
A 44 A 45		140-148 150	Malignant neoplasm of buccal cavity and pharynx		•		
A 46 A 47	(a)	151	Malignant neoplasm of stomach Malignant neoplasm of small intestine,				
	(b)		including duodenum	·			
A 48		154	except rectum				
A 49 A 50		161 162-163	Malignant neoplasm of larynx Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary				
A 51 A 52		170 171	Malignant neoplasm of breast Malignant neoplasm of cervix uteri				
			Carried forward	60,109	36,342	78,259	174,710

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

Inte medi	liate Detailed list			All Nati	New (onalities (inc	Cases. cluding Euro	peans).
lis Num	t	list	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
			Brought forward	60,109	36,342	78,259	174,710
A 53		172-174	II.—NEOPLASMS—(cont.) Malignant neoplasm of other and unspecified				
A 54 A 55 A 56	4	$ \begin{array}{c} 177 \\ 190-191 \\ 196-197 \end{array} $	parts of uterus Malignant neoplasm of prostate Malignant neoplasm of skin Malignant neoplasm of bone and connective				
A 57	(a) (b) (c) (d)	$\begin{array}{c} 155\text{-}156 \\ 157 \\ 158 \\ 159 \end{array}$	tissue				
	(e)	175-176	organs Malignant neoplasm of other and unspecified female genital organs				
	(f)	178-179	Malignant neoplasm of other and unspecified male genital organs	-			
	(g)	180-181	Malignant neoplasm of kidney, bladder and other urinary organs	-			
	(h)	$\left.\begin{array}{c} 160 \\ 164\text{-}165 \\ 192\text{-}195 \\ 198\text{-}199 \end{array}\right\}$	Malignant neoplasm of all other and unspecified sites			t on the second	
A 58 A 59	(a) (b) (c)	204 200 201 202-203	Leukaemia and Aleukaemia				
A 60	(a)	210-211	poietic system Benign neoplasm of buccal-cavity, pharynx and digestive system				
	(b) (c) (d)	$\begin{array}{c} 217 \\ 218 \\ 212-216 \\ 219-229 \end{array}$	Benign neoplasm of other female genital organs Benign neoplasm of other male genital organs Benign neoplasm of other and unspecified				
	(e)	230	Neoplasm of unspecified nature of digestive organs				
	(f)	233-235	Neoplasm of unspecified nature of other female genital organs				
	(g)	231-232 \ 236-239 }	Neoplasm of unspecified nature of other unspecified organs	• •	1	•	1
			III.—ALLERGIC, ENDOCRINE SYSTEM, METABOLIC AND NUTRITIONAL DISEASES			and the second s	
			IV.—DISEASES OF THE BLOOD AND				
A 61		250-251	BLOOD-FORMING ORGANS. Nontoxic goitre				
A 62 A 63		$\begin{array}{c} 252 \\ 260 \end{array}$	Thyrotoxicosis with or without goitre Diabetes mellitus				
A 64	(a) (b)	280 281 282	Beri Beri	444	361	29	834
	(c) (d) (e)	$283 - 284 \\ 285$	Scurvy	• •	• •	71	71
	(e) (f)	$286.0 \\ 286.5$	(a) Sprue				
		286.1-286.4 286.6	(c) Other deficiency states	1,226	1,018	1,929	4,171
A 65	(a) (b) (c)	290 291 292-293	Pernicious and other hyperchromic anaemias Iron deficiency anaemias (hypochromic)				
A 66	(a) (b)	$\left\{egin{array}{c} 241 \\ 240 \\ 242 - 245 \end{array}\right\}$	Other specified and unspecified anaemias Asthma Angioneurotic oedema, urticaria and other allergic disorders	9,062 2,474	12,867 1,410	8,409 1,316	30,33 8 5,200
	(c) (d) (e)	$\begin{array}{c} 253 \\ 254 \end{array}$	Myxoedema and cretinism Other diseases of thyroid gland				
	$\begin{pmatrix} f \\ q \end{pmatrix}$	$\begin{array}{c} 270 \\ 271 \\ 272 \\ 273 \end{array}$	Disorders of pancreatic internal secretion other than diabetes mellitus Diseases of parathyroid gland. Diseases of pituitary gland Diseases of them the parathyroid gland.				
	(1/)	2(3	Diseases of thymus gland	79.015	51.007	00.000	015.000
			Carriea forwara	73,315	51,997	90,020	215,332

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

Inter- media		Detailed	•	New Cases. All Nationalities (including Europeans).					
list Number		list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.		
			Brought forward	73,315	51,997	90,020	215,332		
			III.—ALLERGIC, ENDOCRINE SYSTEM, METABOLIC AND NUTRITIONAL DISEASES						
			AND						
			IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS—(cont.)						
	(i) (j)	274 275-277	Diseases of adrenal gland Other diseases of endocrine glands						
	$\binom{(k)}{(l)}$	288 287, 289	Cout	112	101	23	236		
	(n)	$\begin{array}{c} 294 \\ 295 \\ 296 \end{array}$	Polycythemia						
	(n) (o) (p) (q) (r)	$\begin{array}{c} 297 \\ 298 \end{array}$	Agranulocytosis						
	(r)	299	Other diseases of blood and blood-forming organs	20	12	26	58		
			V.—MENTAL. PSYCHONEUROTIC AND PERSONALITY DISORDERS.						
A 67	(a)	300	Schizophrenic disorders (dementia praccox).						
	(a) (b) (c) (d)	$301 \\ 302 \\ 303$	Maniac-depressive reaction						
	(e)	$\begin{array}{c} 304 \\ 305 \text{-} 309 \end{array}$	Senile psychoses						
A 68	(a) (b)	311 314	Hysterical reaction						
	(f) (a) (b) (c) (d) (e)	$\begin{array}{c} 322 \\ 323 \\ 310 \end{array}$	Other drug addiction						
		$312-313 \\ 315-321$	Other psychoneuroses and disorders of						
A 69		$\begin{array}{c} 324 \\ 326 \\ 325 \end{array}$	personality			-			
11 00		020	VI.—DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS.						
A 70	(a)	331	Cercbral hacmorrhage						
	(a) (b) (c)	$\begin{bmatrix} 332 \\ 330 \\ 333-334 \end{bmatrix}$	Cercbral embolism and thrombosis Other vascular lesions affecting central nervous system						
A 71 A 72		$\begin{array}{c} 340 \\ 345 \end{array}$	Non-meningococcal meningitis						
A 73 A 74	(a) (b)	$353 \\ 370 \\ 371-379$	Epilepsy						
A 75 A 76	(0)	385 387	Cataract						
A 77	(a) (b)	$\begin{array}{c} 390 \\ 391 \text{-} 393 \end{array}$	Otitis externa	1 050	1 200	5 500	8,676		
A 78	(c) (a)	$394 \\ 380-384 \\ 386,388$	Other inflammatory diseases of ear	1,852 8,487	1,322 6,976	11,015	26,478		
	(b)	$\frac{389}{342}$.	Intracranial and intraspinal abscess	,					
	$egin{pmatrix} (b) \ (c) \ (d) \ (e) \ (f) \end{matrix}$	$\begin{array}{c} 343 \\ 350 \\ 352 \end{array}$	Encephalitis, myclitis and encephalomyclitis Paralysis agitans			•			
	(f) (g) (h)	356 357	Motor neurone disease and muscular atrophy Other diseases of spinal cord			1			
	(n)	366	Other and unspecified forms of neuralgia and neuritis				252 520		
			Carried forward	83,786	60,108	106,586	250,780		

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

			ETURN OF DISEASES FOR THE YE		(00100.)		
Inte media	ate	Detailed		All Nati		Cases. cluding Euro	peans).
list Numt		list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
			Brought forward	83,786	60,408	106,586	250,780
			VI.—DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS—(cont.)				
	$ \begin{array}{c} (i) \\ (j) \\ (k) \end{array} $	367 369 341, 344	Other diseases of cranial nerves				
		$ \begin{array}{c} 351, 354 \\ 355 \\ 360-365 \\ 368 \\ 395-398 \end{array} $	All other diseases of the nervous system and sense organs	16,717	12,313	3,299	32,329
			VII.—DISEASES OF THE CIRCULATORY SYSTEM.				
A 79	(a)	400	Rheumatic fever without mention of heart involvement				
	(b) (c)	$\begin{array}{c} 401 \\ 402 \end{array}$	Rheumatic fever with heart involvement	-			
A 80	(a) (b) (c)	$410-413 \\ 414 \\ 415$	Diseases of valves specified as rheumatic Other endocarditis specified as rheumatic Other myocarditis specified as rheumatic		•		
A 81	(d) (a)	416 420	Other heart disease specified as rheumatic Arteriosclerotic heart disease, including coronary disease				
	(b)	421	Chronic endocarditis not specified as rheumatic				
A 82	(c) (a) (b)	$422 \\ 430 \\ 431$	Other myocardial degeneration Acute and subacute endocarditis Acute myocarditis				
	$\begin{pmatrix} (c) \\ (d) \end{pmatrix}$	$\begin{array}{c} 432 \\ 433 \end{array}$	Acute pericarditis				10
A 83 A 84	(e)	434 . 440-443 444-447	Other and unspecified diseases of heart Hypertension with heart disease Hypertension without mention of heart	$\frac{9}{1}$	3	1	13 1
A 85	(a) (b)	450 451	General arteriosclerosis				
	(c) (d)	$452 \\ 453 \\ 454$	Other aneurysm, except of heart and aorta Peripheral vasculara disease		-		
	$\begin{array}{c} (e) \\ (f) \\ (g) \end{array}$	455 456	Arterial embolism and thrombosis				
A 86	$\begin{pmatrix} (a) \\ (b) \end{pmatrix}$	460,462 461	Varicose veins				
	(a) (b) (c) (d) (e)	463-464 465	Phlebitis and thrombophlebitis Pulmonary embolism and infarction				
	(e) (f)	$\begin{array}{c} 466 \\ 467 \end{array}$	Other venous embolism and thrombosis Other diseases of circulatory system	77	41	34	152
	(g)	468	(a) Adenitis	802	$\begin{array}{c} 401 \\ 2 \end{array}$	$\begin{array}{c c} 687 \\ 2 \end{array}$	$1.890 \\ 12$
			(c) Other diseases of lymph nodes and lymph channels	71	30	47	148
			VIII.—DISEASES OF THE RESPIRA- TORY SYSTEM.				
A 87	(a) (b) (c)	470 471 472	Acute naspolaryngitis (common cold) Acute sinusitis				
	(d) (e) (f)	$47\overline{3}$ 474 475	Acute tonsillitis Acute laryngitis and tracheitis Other acute upper respiratory infections	752	465	725	1,942
A 88	(a)	480 481	Influenza with pneumonia Influenza with other respiratory manifesta-	104	#00	120	1,012
	(c)	482	tions, and influenza unqualified Influenza with digestive manifestations, but without respiratory symptoms	8,427	5,116	7,942	21,485
			Carried forward	110,650	78,779	119,323	308,752

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

Inter-	Datailed		New Cases. All Nationalities (including Europeans).					
mediatc list Number.	Detailed list Number.	Cause Groups—(Diseases).	Adult Malcs.	Adult Females.	Children under 10 years.	Total.		
		Brought forward	110,650	78,779	119,323	308,752		
		VIII.—DISEASES OF THE RESPIRA- TORY SYSTEM—(cont.)						
(1)	483	Influenza with nervous manifestations, but						
89	490 491	without digestive or respiratory symptoms Lobar pneumonia Broncho-pneumonia						
91	492-493	Primary atypical, other and unspecified pneumonia	38	32	83	153		
(a) (b)	500 501 502	Acute bronchitis	25,110	15,115	31,265	71,490		
94 95 (a)	$\begin{array}{c} 510 \\ 518 \end{array}$	Hypertrophy of tonsils and adenoids						
(b) L 96	$\begin{array}{c} 521 \\ 519 \end{array}$	Abscess of lung	6	4	• •	10		
(b)	520 522	Other diseases of upper respiratory tract Spontaneous pneumothorax Pulmonary congestion and hypostasis						
(c) (d) (e)	$\begin{array}{c} 525 \\ 523 \end{array}$	Other chronic interstitial pneumonia						
$\begin{pmatrix} f \\ g \end{pmatrix}$	$\left\{egin{array}{c} 526 \ 511\text{-}516 \ 524 \end{array} ight\}$	Bronehiectasis	402	203	495	1,100		
	$\begin{bmatrix} 527 \\ 527 \end{bmatrix}$		302	200	100	2,20		
		1X.—DISEASES OF THE DIGESTIVE SYSTEM.						
1 98 (a) (b)		Dental caries						
` '		(b) Pyorrhoca	2054	0.100	9.000	0 009		
1 99 1 100	540 541	structures Uleer of stomach Ulcer of duodenum	2,854	2,130	3,899	8,883		
101 102	543 550-553	Gastritis and duodenitis	4,231	4,118	3,628	11,977		
(a) (b)		Hernia of abdominal cavity without mention of obstruction Hernia of abdominal cavity with obstruction						
(b) (c)	570	(a) Intussusception (b) Volvulus						
A 104 (a)	571.0	(c) Other intestinal obstruction			2,187	2,187		
<i>(b)</i>	571.1	and 2 years Gastro-enteritis and eolitis, ages 2 years and over	2,737	1,705	2,459	6,901		
$\begin{array}{ccc} (c) & (c) \\ (a) & (a) \end{array}$	581.0	Chronic enteritis and ulcerative colitis Cirrhosis of liver without mention of alcoholism	-	·				
$\begin{array}{ccc} (b) & (a) \\ (a) & (b) \end{array}$	584	Cirrhosis of liver with alcoholism Cholclithiasis Cholecystitis without mention of calculi						
1 107 (a) (b)	536 538	Stomatitis						
(c) (d)	1	(a) Functional disorders of oesophagus (b) Stricture or obstruction oesophagus Disorders of function of stomach						
$egin{pmatrix} (d) \ (e) \ (f) \end{pmatrix}$	545	Other diseases of stomach and duodenum (a) Constipation	12,641	6,915	6,871	26,427		
		(b) Other functional disorders of intestines Anal fissure and fistula Absence of anal and rectal regions	834	565	560	1,959		
(g) (h) (i) (j) (k)	576 578	Abseess of anal and reetal regions Peritonitis						
(\check{k})	580	(a) Acute yellow atrophy of liver						
$\binom{(l)}{(m)}$	583 586	(c) Hepatitis						
(n) (o)	587 537, 542 \	Diseases of pancreas Other diseases of digestive system	1,148	728	607	2,483		
	577, 582	Carried forward	160,651	110,294	171,377	442,322		

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

Inter-		Dokotlad		All Natio	New Conalities (inc		peans).
mediat list Numbe		Detailed list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
			Brought forward	160,651	110,294	171,377	442,322
			X.—DISEASES OF THE GENITO- URINARY SYSTEM.				
A 108 A 109	(a)	$\begin{array}{c} 590 \\ 591 \end{array}$	Aeute nephritis				
	(b) (c)	592 593	Chronie nephritis				4
A 110	(d)	594 600	Other renal selcrosis Infections of kidney				
A 111	(a) (b)	$\begin{array}{c} 602 \\ 604 \end{array}$	Calculi of kidney and ureter				
A 112 A 113		$\begin{array}{c} 610 \\ 620\text{-}621 \end{array}$	Hyperplasia of prostate				
A 114	(a) (b)	603 605	Other diseases of kidney and ureter				
	$\begin{pmatrix} (c) \\ (d) \end{pmatrix}$	606 608	Other diseases of bladder				
((e)	609 612	Other diseases of urethra				
	(f) (g) (h) (i) (j) (k)	$\begin{array}{c} 613 \\ 614 \end{array}$	Hydroeele				
	(i)	$\begin{array}{c} 617 \\ 622 \end{array}$	Other diseases of male genital organs				
	$\begin{pmatrix} j' \\ (k) \\ (l) \end{pmatrix}$	$\begin{array}{c} 625 \\ 626 \end{array}$	Other diseases of ovary and fallopian tube Diseases of parametrium and pelviperitoneum				
,	(m)	630	(female) Infective disease of uterus. vagina and vulva				
	(n) (o)	$\begin{array}{c} 633 \\ 634 \end{array}$	Other diseases of uterus				
	(p)	637 601	Other diseases of female genital organs				
	(q)	$ \begin{array}{c c} 607, 611 \\ 615-616 \\ 623-624 \\ 631-632 \end{array} $	All other diseases of the genito-urinary system	452	460	203	1,115
		635-636	XI.—DELIVERIES AND COMPLICA-				
4 4 7 7		240	TIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM.				
A 115	(a) (b)	$640 \\ 641$	Pyelitis and pyelonephritis of pregnancy Other infections of genito-urinary tract			,	
	(c)	$\begin{array}{c} 681 \\ 682 \end{array}$	during pregnancy Sepsis of childbirth and the puerperium				
A 110	(d) (e)	684	Puerperal phlebitis and thrombosis				
A 116	(a)	642	(a) Albuminuria of pregnancy				
			(c) Hyperemesis gravidarum				
	(b)	652	(e) Other toxaemias of pregnancy Abortion with toxaemia, without mention of				
	(c)	685 686	sepsis				
A 117	(d) (a)	643 644	Other forms of puerperal toxaemia				
	(b) (c)	670	Other haemorrhage of prognancy Delivery complicated by placenta praevia or			1	
	(d)	671	antepartum haemorrhage Delivery complicated by retained placenta			1	
A 110	(e)	672 650	Delivery complicated by other postpartum haemorrhage				
A 118 A 119		651	Abortion without mention of sepsis or toxaemia			1	
A 119 A 120	(a)	$\begin{array}{c} 631 \\ 645 \\ 646 \end{array}$	Abortion with sepsis				
	(b) (c)	683	Anaemia of pregnancy Pyrexia of unknown origin during the				
	(d)	688.1	puerperium				
((e) (f)	689 $647-649$	Mastitis and other disorders of lactation				•
		673-680	Other complications of pregnancy, childbirth		277		955
		$688.0 \\ 88.2-688.3$	and the puerperium	• •	675	••	675
	(g)	660	Delivery without eomplications	102.102	111 100	181 500	114 110
			Carried forward	161,103	111,429	171,580	444,112

TABLE 7—(cont.)

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

Inter- mediate	Detailed		All Natio	New Conalities (inc	ases. luding Europ	peans).
list Number.	list	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
		4			1	
		Brought forward	161,103	111,429	171,580	444,112
		XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE				
		AND				
		XIII.—DISEASES OF THE BONES AND ORGANS OF MOVEMENT.				
	690 691-693 694-698	Boil and carbuncle			1 1 4 4 1 1	
A 122 (d	720 721	tissue Acute arthritis due to pyogenic organisms Acute nonpyogenic arthritis				
(0	$egin{array}{c} (c) & 722 \\ (d) & 723-725 \\ (d) & 726 \end{array}$	Rheumatoid arthritis and allied conditions Arthritis specified and unspecified				
4 124	$\begin{vmatrix} b \\ 730 \end{vmatrix}$	Rheumatism unspecified Osteomyelitis and periostitis	5,199	4,062	225	9,486
()	$egin{array}{c c} 737 \\ 745-749 \\ 715 \\ \hline \end{array}$	Ankylosis of joint Other acquired musculoskeletal deformities Chronic ulcer of skin (including tropical ulcer)				
($\begin{vmatrix} b \\ -700-714 \\ 716 \end{vmatrix}$	All other diseases of skin	54,162	23,704	58,968	136,834
($\begin{array}{c c} (731-736 \\ 738-744 \end{array}$	All other diseases of musculoskeletal system	2,694	1,617	243	4,554
		XIV.—CONGENITAL MALFORMATIONS.			1	
A 127 A 128	751 754	Spine bifida and meningocele				
	$\begin{pmatrix} a \\ b \end{pmatrix} = \begin{pmatrix} 750 \\ 752 \end{pmatrix}$	system				
	$egin{array}{c} (c) & 753 \\ (d) & 755 \end{array}$	Other congenital malformations of nervous system and sense organs				
(e) 756	(a) Congenital hypertrophic pyloric stenosis (b) Imperforate anus (c) Other congenital malformations of				
()	757	digestive system				
(, (,	758 759	Congenital malformations of bone and joint Other and unspecified congenital malformations, not elsewhere classified				
		XV.—CERTAIN DISEASES OF EARLY INFANCY.				
($egin{array}{c} a) & 760 \\ b) & 761 \end{array}$	Intracranial and spinal injury at birth Other birth injury				
A 131 A 132 ((a) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (b) (b) (a) (b)	Postnatal asphyxia and atelectasis				
((c) 763 (d) 766	Pneumonia of new born				
A 133	770	Umbilical sepsis				
A 134 A 135 ($\left\{\begin{array}{c} 769 \\ 771-772 \end{array}\right\}$	All other defined diseases of early infancy				
Ì	$egin{array}{c c} a) & 773 \\ b) & 774 \\ c) & 775-776 \\ \end{array}$	Congenital debility				
		infancy and immaturity unqualified	• •		41	41

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

Inter- mediate	Detailed		All Nati	New (included in the contract of the contract	Cases. cluding Euro	peans).
list Number.	list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
		Brought forward	223,158	140,812	231,057	595,027
		XVI.—SYMPTOMS, SENILITY AND ILL- DEFINED CONDITIONS.				
A 136 A 137 (a (b (c) 788.8	Senility without mention of psychoses Infantile convulsions	2,536	1,62 0	30	4,1 56 30
(d	$egin{pmatrix} 781-787 \\ 789-792 \\ 795 \\ 788.1-788.7 \\ 788.9 \end{bmatrix}$	(a) Malingering				
	, , ,	(b) Sudden death (cause unknown) (c) Found dead (cause unknown)				
		(d) Other ill-defined and unknown causes of morbidity and mortality	3,276	1,680	4,160	9,116
		XVII.—ACCIDENTS, POISONINGS AND VIOLENCE.				
		"E" CODE: ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSES).				
AE 138 AE 139 (a	E 810-E 835 E 800-E 802	Motor vehicle accidents	18	1	2	21
(b	E 850-E 858 E 860-E 866	Water transport accidents		• •	1	1
AE 140 (a) E 840-E 845	Other transport accidents Accidental poisoning by morphia and other	66	16	82	164
(b	E 874	opium derivatives		A SELECTION OF THE PROPERTY OF		
(0	E 878	Accidental poisoning by other and unspecified				
(d		Accidental poisoning by corrosive aromatics, acids and caustic alkalics		element de la Propieto de Prop		
(e		Accidental poisoning by mercury and its compounds Accidental poisoning by lead and its				
(f		compounds				
. (h		and their compounds				
	E 890-E895	solid or liquid substances				
	E 871-E873 E 875-E877 E 879-E882 }	Other accidental poisoning	• •	1	.••	1
AE 141 AE 142	E 887 J E 900-E 904 E 912	Accidental falls	5,996 10	$\begin{bmatrix} 2,700 \\ 1 \end{bmatrix}$	4,9 17	13,613 16
AE 143 AE 144	E 916	Accident caused by fire and explosion of combustible material				
AE 145	E 917-E 918 E 919	Accident caused by hot substance, corrosive liquid, steam and radiation	6	1	3	10
AE 146 AE 147 (a	E 929	Accident caused by hrearm		-	3	10
(b)) E 923	Foreign body entering other orifice				
(d	E 928	venomous animals and insects Other accidents caused by animals	$\begin{bmatrix} 257 \\ 24 \end{bmatrix}$	132 7	184 26	573 57
AE 148 (a	E 913	Accidents caused by cutting or piercing instruments	6,426	3,168	3,944	13,538
(<i>b</i> (<i>d</i> (<i>d</i>	E 914 E 925 E 926	Accidents caused by electric current Accidental mechanical suffocation Lack of care of infants under 1 year of age				
(b (c (d (e (f (g (h) E 931 E 932 E 933 E 934	Excessive heat	3	ક		6
(10	E 994	Carried forward	241,776	150,142	244,411	636,329
				200,112		

TABLE 7—(cont.)

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

Inter- mediate	Detailed		All Nati	New (onalities (in	Cases. cluding Euro	ppeans).
list Number.	list Number.	Cause Groups—(Diseases).	Adult Males.	Adult Females.	Children under 10 years.	Total.
		Brought forward	241,776	150,142	244,411	636,329
		XVII.—ACCIDENTS, POISONINGS AND VIOLENCE—(cont.)				
		"E" CODE: ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSES)—(cont.)				
(i) (j)	E 935 E 936	Lightning (a) Accidents in mines and quarries (b) Agricultural and forestry accidents (c) Accidental injury by crushing or landslide	2 174	81	95	2 350
(m)	E 940 E 941-E 942 E 954 E 950-E953 E 955-E959	(d) Other and unspecified accidents Generalized vaccinia following vaccination Other complications of smallpox vaccination Anaesthetic accidents Accidents due to medical or surgical intervention	2	5	92 163	92 170
(o) (p)	E 970 E 971	Suicide and self-inflicted injury by analgesic and soporific substances Suicide and self-inflicted injury by other solid	Political and the state of the			
(q)	E 972	and liquid substances Suicide and self-inflicted injury by gases in domestic use		ne vicini di dinagni dindi di dinagni di dinagni di dinagni di dinagni di dinagni di din		
(r) (s)	E 973 E 974	Suicide and self-inflicted injury by other gases Suicide and self-inflicted injury by hanging or	De Amendeus spag des			
(t)	E 975	strangulation Suicide and self-inflicted injury by submersion				
(u)	E 976	(drowning)	Adventible in the con-			
(v)	E 977	Suicide and self-inflicted injury by cutting or				
(w)	E 978	Suicide and self-inflicted injury by jumping from high place				
(x)	E 979	Suicide and self-inflicted injury by other and unspecified means				
	E 910-E911 E 915 E 921-E922 E 924-E930 E 943-E946	All other accidental causes	83	39	53	175
AE 149 (a) (b) (c) (d) (e) (f)	E 960-E965 J E 980 E 981 E 982 E 983 E 984 E 985	Non-accidental poisoning by another person Assault by firearms and explosive Assault by cutting or picrcing instruments Assault by other means Injury by intervention of police Execution (legal)	34	22	32	88
AE 150	Е 990-Е 999	"N" CODE: ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONING, AND VIOLENCE (NATURE OF INJURY).				
AN 139 AN 140 AN 141	N 800-N 804 N 805-N 809 N 810-N 829 N 830-N 839 N 840-N 848	Fracture of skull Fracture of spine and trunk Fracture of limbs Dislocation without fracture Sprains and strains of joints and adjacent				
AN 144	N 850-N 856 N 860-N 869 N 870-N 908 N 910-N 929	muscles Head injury excluding fracture Internal injury of chest, abdomen and pelvis. Laceration and open wounds Superficial injury, contusion and crushing	,			
AN 147 AN 148 AN 149 AN 150	N 930-N 936 N 940-N 949 N 960-N 979 N 950-N 959 N 980-N 999	with intact skin surface Effects of foreign body entering through orifice Burns Effects of poisons All other and unspecified effects of external causes	286 2 8	219 15	504 92	1,009 135
		TOTAL	242,385	150,523	245,442	638,350

TABLE 7—(cont.)

TRAVELLING DISPENSARIES OUT-PATIENTS—(cont.)

RETURN OF DISEASES (OUT-PATIENTS) FOR THE YEAR 1951

	Voti	onalitie	n er		New Cases. All Nationalities (including Europeans).				
	14 66 61	Onanon	C3.		Adult Males.	Adult Females.	Children under 10 years.	Total. (A)	
Europeans					 4			4	
Eurasians					 29	29	47	105	
Chinese					 57,947	41,081	63,093	162,121	
Indians					 19,527	12,659	15,229	47,415	
Malays					 149,822	88,339	156,650	394,811	
Javanese					 7,217	3,304	6,264	16,785	
Japanese									
Others					 7,839	5,111	4,159	17,109	
				TOTAL	 242,385	150,523	245,442	638,350	

TABLE 8.

DENTAL-SUMMARY OF WORK DONE FOR THE YEAR 1951.

Atten-
dance.
18,020
12.608
19,
17,481
15,7
12,310
$\ldots \mid 24,4$
$\dots $ 2,883
5,
11,6
4,364
8,661
5,538
159,094

TABLE 9.

MICROSCOPICAL EXAMINATION OF BLOOD FILMS
FOR THE YEAR 1951.

State or Settlement.			ber of	NUMBER PO	Total number of			
			ients nined.	S.T.	В.Т.	Quartan.	Mixed infection.	examina- tions of blood films
Kedah Perlis Penang &	 Provin		8,510 5,345	1,810 749	1,036 5 6 1	16 4	19	19,434 5, 6 30
Wellesley Perak Selangor		$\begin{array}{c c} \cdot \cdot & 1 \\ 4 \end{array}$	6,185 7,246 2,288	530 1,265 561	$\frac{414}{696}$ $\frac{263}{2}$	22 9 23	7 26 25	17,347 84,873 58,342
Negri Sembi Malaeca	• •	$\begin{bmatrix} \cdot \cdot \\ \cdot \cdot \end{bmatrix} = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$	$egin{array}{c c} 4,125 & \\ 1,161 & \\ \end{array}$	1,255 1,224	$\begin{array}{c} 222 \\ 201 \end{array}$	5 2 11	25 6 204	34,764 12,217
Johore Kelantan Trengganu	• •		1,760 8,611 1,915	$egin{array}{c c} 1,163 & \\ 903 & \\ 128 & \\ & & \\ \end{array}$	445 442 116	11 11 11 3	3 5	24,753 8,733 2,175
Pahang	··· Fotal		$\begin{array}{c c} 5,031 \\ \hline 2,177 \end{array}$	10,456	$\frac{291}{4,687}$	117	337	42,355 310,623

TABLE 10.

MICROSCOPICAL EXAMINATION OF FAECES FOR WORM INFECTIONS FOR 1951.

		Number of	Number positive for	Number	POSITIVE F	or Ova.	Total
State or Settlem	ent.	patients examined.	entamoeba histo- lytica.	Asearis lumbri- coides.	Ankylo- stoma duodenale.	Mixed infection.	number of examinations.
Kedah Perlis Penang & Pro	· · vinee	12,784 1,812	216 23	4,141 885	2,899 42	$1,053 \\ 43$	13,857 1,881
Wellesley Perak Selangor	• • • • • • • • • • • • • • • • • • • •	15,169 32,874 25,414	248 295 179	3,558 7,823 6,260	2,792 2,672 3,136	1,080 918 2,325	20,322 45,129 32,776
Vegri Sembilan Malacea Johore Kelantan	• •	$ \begin{array}{c c} 16,790 \\ 7,236 \\ 16,840 \\ 5,270 \end{array} $	$egin{array}{c} 81 \\ 52 \\ 118 \\ 96 \\ \end{array}$	3,220 794 $5,140$ $1,020$	1,159 1,103 2,178 256	371 3,089 2,392	21,648 8,065 19,187
Trengganu Pahang	• •	5,379 1,931 16,364	144 45	384 3,429	194 200	882 637 146	5,452 2,375 28,348
Total		152,593	1,497	36,654	16,631	12,936	199,040

TABLE 11.

POST MORTEM EXAMINATIONS, 1951.

State or S	ettlemen	ıt.		Medico- legal.	Clinical.
Kedah				 231	6
Perlis				 35	
Penang and Prov	vince V	Velles	ley	 259	11
Perak				 910	62
Selangor				 717	83
Negri Sembilan				 211	4
Malacca				 153	19
Johore				 552	50
Kelantan				 68	2
Trengganu				 18	2
Pahang	• •			 432	10
			Total	 3,586	249

18,742

GRAND TOTAL ...

TABLE 12.

RETURN OF VENEREAL DISEASES FOR THE YEAR 1951.

A.—New Cases.

			1	1			1	,	1	,			
AL.	표	1	2,413		1,484		1,551		ಭ	•	89		5,521
TOTAL.	M.	4,694		3,738		4,493		175		121		13,221	
Non-	venrl.	789	1,175	717	683	453	482	32	20	21	29	2,012	2,374
Comb.	infec.	34	45	53	1-	43	25			က		133	77
Lympho-	gran.	89		65	2	47	2					180	4
Chan-	eroid.	652	1	735	∞	183	6.1	18		10		1,598	17
Gon-	orrhoea.	1,381	217	844	06	1,847	217	113		38	11	4,223	535
	Congen.	64	123	39	55	25	59				67	129	239
ILIS.	Tert.	170	152	06	72	152	200			9	4	418	428
SYPHILIS.	Sec.	1,315	633	1,029	515	1,430	493	က		39	20	3,816	1,661
	Prim.	221	61	166	52	313	71	∞		4	2	712	186
	Nationalities.	M.	Cninese F.	T. diene	markins F.	M.	maiays F.	W. M.	Lauroposins F.	M.	Contains F.	Total	F.

116,440

GRAND TOTAL ...

RETURN OF VENEREAL DISEASES FOR THE YEAR 1951-(cont.). B.—Re-Attendances. TABLE 12—(cont.).

comb.	gran. infec. venrl. M. F.	87 385 1,229 26,963 —	5 3,544 — 19,271	243 497 892 20,018 —	8 124 1,939 — 10,935	59 308 1,058 28,164 —	1 123 1,749 — 9,383		43 - 47		71 — 524	389 1,190 3,234 76,280 —	
													14 466
	croid.	2,799	38	2,558	20	388	ũ	42	က	52		5,839	99
Gon-	orrhoea.	2,822	632	2,376	226	1,810	246	257		52	14	7,317	1 119
	Congen.	255	1,736	129	457	134	526			transmin	18	518	9.737
ILIS.	Tert.	2,477	2,256	963	872	1,704	1,538	12		51	35	5,207	4.701
SYPHILIS.	Sec.	14,922	10,350	11,136	6,954	22,045	5,024	22		512	356	48,637	22.684
	Prim.	1,987	492	1,224	335	829	171	53		27	29	3,949	1 097
	Nationalities.	M.	Chinese F.	M.	Indians F.	. M.	Malays F.	M.	Europeans F.	M.	Others F.	M.	LOTA!

TABLE 12—(cont.).

RETURN OF VENEREAL DISEASES FOR THE YEAR 1951—(cont.). C -ANALYSIS OF COMPINED INFECTIONS-NEW CASES ONLY.

	AL.	[<u>F</u> i	92	75	61	
	Total.	M.	124	121	14	1-
	OTHERS.	ᅜ	ļ			
	OIL	M.	က	က		
OANALISIS OF COMBINED INFECTIONS INEW CASES ONLY.	EANS.	[다	ĺ			
NEW CAS.	EUROPEANS.	M.				
TIONS—I	AYS.	ĬŦ,	25	25		
ED INFEC	MALAYS.	M.	38	37	6	6.1
COMBIN	ANS.		9	9	-	
ALISIS OF	Indians.	X	20	49	4	ಣ
O.—AN	ESE.	E	45	44	F4	
	CHINESE.	M.	33	32	1	61
			With Syphilis	With Gonorrhoea	With Chancroid	With Lymphogranuloma

TABLE 13.

SUMMARY OF CHILD WELFARE CENTRES.

4 0 + 0 / O + 0 + 0	Permanent	Subsidiary	MEDICAL OFFI	OFFICERS.	Health	Health	Dispensers	
state/pertitent.	Centres.	Centres.	Women.	Men.	Sisters.	Nurses.	Assistants.	Midwives.
Kedah	-1 1 (38	-		61	9		က
Penns Penangand P Wellesley		9		1 (P.T.)	- 6	1 61		ور در و
Perak.	9	ာ ဘ			ų 9	2 2 2 2 2 2	٦,	4 61 4 461
Selangor		10	-	L	5	16	က	4
Negri Sembilan	9	ତୀ	1 (P.T.)		ಬ	∞	1 (P.T.)	က
Malacca	[- }	ĬD Z	—			L (9
Johore Kelantan		24 6	23	3 (P.T.) —	5 (P.T.) 1	27 6	4	
Trengganu	· 63	9			·	! —		+ - j -
	-1	38			ಣ	9		च्यं
Total .	99	145	5	4	31	93		104

(P.T.) = Part Time.

TABLE 14.

SUMMARY OF DISPENSARIES.

(Excluding Hospital Out-Patient Dispensaries.)

				٠							
		Total	Ē	TRAVELLING.	LLING.	Medical	Health	Health	Dispensers or Hosnital	Widwives	Others
State/Settlement.	÷.	number.	r ixed.	Road.	River.	Officers.	Sisters.	Nurses.	Assistants.		
Kedah	:	17	14	en -		— 1 (D T)			18	4	1
Perlis Penang and P. Wellesley	ley	10	01-	⊣ က		2		2	0		
Perak	•	50	23		ಣ	1			900 000		
Selangor	•	<u>ာ</u> က	E -	၁		7	-		22 14		
Malacca		6	 	50		1			11		
Johore	:	31	133 133	4.	<u>य</u> ०	8 (7 P.T.)			30 (4 F.T.) 10		
Kelantan Trengganu	• •	10) 10	0 4	1 —	2 (P.T.)	1		10		
Pahang	:	20	6		4	_			14		de communicación de la companya de l
Total	ૄિકો	189	107	89	14	17	7	2	183	4	

(P.T.) = Part Time.

Table 15.

ESTABLISHMENT—MEDICAL DEPARTMENT, FEDERATION OF MALAYA.

As at 1st January, 1952.

(F)=Federal. (S)=State or Settlement. (N.P.)=New Post (underlined).

MEDICAL.	
Superscale Posts (71)—	
The Superscale posts include three higher adm	ninistrative
posts. The remaining superscale posts number 6	
more than 33 of them will normally be filled by officer	
by the Secretary of State.	
Director, Medical Services	(\mathbf{F}) 1
Deputy Director, Medical Services	(F) 1
Director, Institute for Medical Research	(F) 1
Administrative Officers, Grade "A" (10)—	
Assistant Director, Medical Services	(F)
Chief Medical Officer, Penang	
State Medical and Health Officer, Perak	
	(S)
Nami Carabilar	• /
Palara a	· · ·
-	
State Surgeon, Kedah	
Chief Medical Officer, Malacca	
Chief Medical Officer, Kelantan	(6)
Specialist Officers, Grade "A" (7)—	
Surgeon, Selangor	(S)
Ophthalmologist, Selangor	(S)
Radiologist, Selangor	
Physician, Penang (Upgraded)	(F) (N P)
Medical Superintendent, Central Mental	
Hospital, Tanjong Rambutan (Upgraded)	
Medical Superintendent, Sungei Buloh Settle-	
ment, Sungei Buloh (Upgraded)	
Senior Bacteriologist, Institute for Medical	
Research, Kuala Lumpur (Upgraded)	(F) (N.P.)
Administrative Officers, Grade "B" (12)—	
Deputy State Medical and Health Officer, Perak	(S)
,, ,, Selangor	(S)
Deputy State Surgeon, Kedah	(S)
Deputy Principal Medical Officer, Johore	
Deputy Chief Medical Officer, Penang	
Chief Medical Officer, Trengganu	

Senior Health Officer, Mala	acca				(S)
,, Pena	ng				(S)
	k				(S)
Kala	ntan	•••	•••	• • •	(S)
Medical Superintendent,			Hospi		(~)
Johore Bahru				•••	(S)
Medical Superintendent, G	eneral	Hospi	tal. Ku	ala	· •
Lumpur					(S) (N.P.)
					, , ,
SPECIALIST OFFICERS, GRADE '	'B'' (8	39)—			
Senior Research Officers (4	`	,			
	•••	• • •			(F) 2
Senior Nutritional Resea	arch C	Officer			(\mathbf{F})
Senior Malaria Research	n Offic	er			(\mathbf{F})
TOI					` '
Physicians (6)—	o d				(T7)
Physician (Dermatology Johore		•	• • •	•••	(F)
α 1	•••	•••	•••	•••	(S)
Dovolz		•••	• • •		(S) (S)
Physician and Radiologis			•••	• • •	(S)
Physician, Negri Sembil		•••			(S)
					(10)
Surgeons (9)—					(0)
Surgeon, Johore	•••	• • •	• • •	• • •	(S)
,, Negri Sembilar	n	• • •	•••	• • •	(S)
,, Penang ,, Perak	•••	• • •		• • •	(F)
	•••	•••	• • •	•••	(S)
,. Selangor ,, Pahang	•••	• • •	• • •	• • •	(S)
Kolonton		•••	•••	•••	(S) (S)
,, Kedah	•••	• • •	• • •		(S)
,, Malacca				• • •	(S)
Ophthalmologists (4)—					(ara)
Ophthalmologist, Penan		• • •	• • •	• • •	(\mathbf{F})
,, Kedah		• • •	• • •	• • •	(S)
$egin{array}{lll} & ,, & & ext{Johore} \ & ,, & & ext{Perak} \end{array}$;	• • •	• • •	•••	(S)
,, I GIAK		• • •	•••	• • •	(S)
Obstetricians (4)—					
Obstetrician, Penang	• • •	• • •	• • •		(F)
,, Perak	• • •	• • •	• • •		(S)
,, Johore	• • •	• • •	• • •		(S)
Obstetrician, Selangor		•••	•••	• • •	(S)(N.P.)
Sonion Pathologista (9)					
Senior Pathologists (2)— Senior Pathologist Pone	nn c				(T)
Senior Patholoigst, Pena	ang · ore				(F)
,, ,, Jone	n e	• • •	• • •	• • •	(S)

Tuberculosis Specialists (8	3)—					
Tuberculosis Specialist,		al			(F)	
,,	~ .				` ′	
Tuberculosis Specialist,			• • •			N.P.)
					(,0)	
Radiologists (3)—						
Radiologist, Negri Seml						
,, Perak	• • •				(S)	
,, Penang	• • •				(\mathbf{F})	
Ear, Nose and Throat Sp	ecialist	s (1)	_			
Ear, Nose and Throat S		` '			(8)	
·	эроожн	150, 20	. cere	• • •	('')	
Anaesthetists (2)—						
Anaesthetist, Johore	• • •	• • •	• • •	• • •	(S)	
,, Selangor	• • •	• • •		• • •	(S)	
Child Health Specialist (1)					
Child Health Specialist,	/	al			(F)	
					()	
TIMESCALE MEDICAL AND HEALT	гн Огг	icers (245)—			
(Of the 245 timescale			•	he r	numbe	er of
Expatriate Officers recruited						
not exceed 83. The remain						
recruited in Malaya).						
Research Students	• • •					2
House Surgeons						20
T) I	UNITED A T					
	ENTAL.					
SUPERSCALE GRADE "A" (1)—			•		(11)	
Chief Dental Officer	• • •	•••	• • •	• • •	(\mathbf{F}_{i})	
SUPERSCALE GRADE "B" (2)—						
Specialist Officer (Dental)					(F)	
,,	001101	9	• • •	• • •	(' ')	
Timescale Posts (Dental) (49)	,					
(Of these, Dental Office	ers rec	cruited	by th	e Se	cretai	ry of
State will not exceed 4).						
House Surgeons (Dental)		• • •	• • •	• • •		8
RESEARCH OFF			,			
(All these officers are now rec	ruited	by the	Secret	ary (of Sta	ite).
RESEARCH OFFICERS (Non-MED	DICAT.)	(5)—				
Chief Biochemist, Superso	rale Gi	rade '''	B''		(F)	1
Biochemists				• • •	(F)	2
Entomologists	•••		•••	•••	(五)	2
12111011101081505	• • •	•••		• • •	(1)	~
PHARMA	ACEUT	ICAL.				
(Three recruited by	the Se	ecretary	of Sta	ate).		
Chief Pharmaceutical Chemist,		·			(F)	1
Superintending Pharmaceut	•	Chemi		ınd	(-)	
Pharmacists		· · ·	300 0			5

NURSING.

(In the grou	up of Matron	s, Nursin	g Sisters	and	Health	Sist	ers,
Expatriate Office							
exceed 115).							
700 4 4 7	~ * .						-

nocott 110).				
Principal Matron				1
Matron, Grade I				. 8
Matrons, Grade II		• • •		14
Sister Tutors			• • •	12
Sister Tutors (Dental)				1
Nursing Sisters			• • •	134
Dental Sisters		•••		2
Health Matrons, Grade 1				3
Health Sisters, Grade II	•••		•••	5
Health Sisters				41
				Warman constitution on the same
		Total		221
Other appointments which may the Secretary of State.	ve p	lled by r	ecruit	ments by
•				
Women Almoners	• • •	• • •	•••	3
Women Dietitians	• • •	• • •	•••	2
Women Radiographers	• • •	•••	•••	4
Women Physiotherapists	• • •	•••	• • •	5
		Total		14
		20001	•••	
Men: Superintendent, Ortho	naedi	c Centre		1
Senior Male Nurses, Mental	•			$\frac{1}{2}$
Male Nurse, Mental Hospital		•••	•••	1
Transfer Transfer Trospitat	• • •	•••	•••	•
		Total	• • •	4

The foregoing statement covers duty posts only, and makes no provision for leave reserves.

The following groups are all recruited in Malaya:

Trained Hospital and Public Health Staff.

Lay Superintendent (Leper and Tuberculosis 2 Settlements) Chief Sanitary Inspectors 5 Field Nutrition Officer 1 Pharmacists 9 Radiographers (Hospital Assistants) 3 Health and Sanitary Inspectors 129 Laboratory Assistants 62 Dental Mechanics... 26 Hospital Assistants 1,047

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Hospital 957
Midwives 390

TABLE 15—(cont.)

DETAILS OF STAFFING AS AT 1st JANUARY, 1952.

Establishment.			Substan- tive holder in post.	Substan- tive holder on leave.	Tempo- rary.	Post vacant.
SUPERSOALE MEDICAL Asians—		71			,	24
Men			_ 16	Special compa	_	
Men	: ::		$\begin{bmatrix} 30 \\ 1 \end{bmatrix}$	$ \begin{bmatrix} 2 \\ \end{bmatrix}$		
			47	2		24
CIMESCALE MEDICAL	Officers	245				73
**************************************			76	8	$\begin{bmatrix} 40 \\ 8 \end{bmatrix}$	_
Europeans—			33	6	1	
Women		• •	4	1	7	
	• ••	26	116	16	56	73
Research Students House Surgeons . Asians—		$\begin{bmatrix} 2 \\ 20 \end{bmatrix}$				2 11
Men			8 1	_	_	
SUPERSCALE DENTAL Asians—		3				
Mon			1.	_		—
Mon	•	• •	2			
			3			
Fimescale Dental O	FFICERS	49				16
$rac{ ext{Asians} ext{}}{ ext{Men}}$			31	2	1	-
Europeans—		• •		_	_	
Women					1	
Leave Reserve .		1	31	2	2	10
Asians—	•	8				5
Men Women .		• •	2	_	_	=
RESEARCH OFFICERS MEDICAL):		4				
Superscale European (Men)		1	1		_	1
Timescale Europeans— Mcn	••	4	$_2$	1		1
Wanner	• •	• •	ī	-		
			4	1]
PHARMACEUTICAL:						
Compagaala		1			,	
(Men)		 5	1	-	-	
Asians—	• • • • • • • • • • • • • • • • • • • •		1			
Europeans—			3	_	_	_
, , , , , , , , , , , , , , , , , , , ,						

DETAILS OF STAFFING AS AT 1st JANUARY, 1952—(cont.)

Establishment.	Substan- tive holder in post.	Substan- tive holder on leave.	Tempo- rary.	Post vacant.
Europeans (Women) Nursing Sisters Asian (Women) Europeans (Women) Dental Sisters Health Matrons, Grade I Health Sisters Asian (Women) The Asian (Women)	7 13 5 5 5 5 4 			1 1 3 35 2 3 5 18
Leave Reserve 24	131	7	22	68
OTHER APPOINTMENTS: Almoners	-	1	_ 1	1 2 1
(All European Women) 5 Superintendent, Ortho-				2
paedic Centre 1 European (Man) Mental Hospital :	1	1		_
Senior Male Nurses 2 European (Men)	. 2	-	-	
Male Nurse 1 Asian (Man)	1		- 1	-